Seasonality in India's Key Economic Indicators*

The article presents the seasonal factors of 80 selected economic/financial time series comprising monetary, banking, price statistics, production data, service sector indicators, merchandise trade and alternate modes of payment. This article finds that most of the productionrelated variables seasonally peak around March and pricerelated variables record a seasonal trough around the same time. The seasonal variations in the prices of food products and primary articles have become accentuated over the last decade. As regards payment modes, instruments related to bulk transactions tend to peak during March, whereas, in the case of retail payment, seasonality peaks during festivals.

Introduction

Seasonal variations recurring weekly, monthly or quarterly constitute a behavioural component in economic series and therefore can be predictable. It is intertwined with other time series components, *viz.*, trend, cyclical variations and random fluctuations. The presence of seasonality tends to obscure the true underlying characteristics of the economic variable and its data generating process as well as the interrelationships between variables. At the same time, correctly understanding seasonal variations helps to accurately foresee behavioural changes. In this context, identification and segregation of seasonal factors of an economic variable is a first step to appropriately use the information for the purposes of modelling and forecasting.

Measuring seasonality and undertaking seasonal adjustments has been established as the best practice while modeling time series data. The cross country experience reveals that the USA measures GDP growth in terms of quarter-on-quarter annualised rates of change after adjusting for seasonality. The Inflation Report of the Bank of England generally uses seasonally adjusted data. The Quarterly Financial Report of Bank of Canada publishes assessment of seasonal demand for bank notes. The International Monetary Fund (2016) has advised member countries to report seasonally adjusted broad money data in their 'Standardised Report Form for Money Aggregates' in its International Financial and Monetary Statistics.

The Reserve Bank has been publishing monthly seasonal factors for important macroeconomic variables since 1980. This article carries forward this endeavor by computing and updating seasonal factors upto 2019-20. The rest of the article is organised as follows. A review of the literature relating to evolution of methodology and global usage of seasonal factors is presented in Section II. The economic variables selected for study and choice of technique for extracting seasonal factors are explained in Section III. Section IV brings out the seasonality patters for various groups of macroeconomic variables based on average monthly seasonal factors in light of data upto 2017-18. Section V presents the results on temporal shifts in seasonality patterns followed by empirical evaluation of seasonal variation. Section VI concludes the article with some policy perspective.

II. Review of the Literature

In literature, time series are assumed to be composed of orthogonal components, *viz.*, trend, seasonal, cyclical and irregular components. In an additive model, the time series is represented as the sum of the four components mentioned above, whereas in a multiplicative model the time series is the product of the components. Seasonality is the yearly or monthly predictable variation of the time series over and above trend and cycle. Seasonality plays a key role in short-term analysis of macro-economic factors and aids in effective decision-making.

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The literature refers to unmasking relevant short and long-term movements of economic time series by accounting for the behavioural nature of seasonality (Manna, *et al.*, 2003; HCSO, 2017). Estimates of seasonal factors are observed to have improved the trend-based forecasts of economic variables (Lembke, 2015). Seasonal adjustment has been employed along with various smoothening and filtering techniques to extract the persistent component in economic variables, notably core inflation (Samanta, *et al.*, 2000). The use of non-parametric singular spectrum analysis for extraction of seasonality has been discussed in the context of Global Positioning System (GPS) signal extraction (Chen, *et al.*, 2013) and other related fields.

The literature on estimation of seasonal factors has a long history, starting from ratio-to-movingaverage method (Macaulay, 1931), further refined as Census Methods by the US Census Bureau in 1954-55. Extensive research on the explicit functional specification of seasonal and trend/cycle components led to development of various versions of seasonal adjustment methods. The X-11 method (US Census Bureau, 1965) provided functional flexibility such as multiplicative as well as additive representation of components, treatment for extreme values and various tests for seasonality (Shiskin, et al., 1967). A major limitation of X-11 method, which is based on moving average or linear smoothing filter, however, was the lack of reliability of estimates for the most recent year because of inability to apply symmetric weights to end points as against central observations. This led to frequent revisions of estimates of most recent observations as more data points get added (Dagum, 1980).

Statistics Canada's X-11-ARIMA method incorporated an Autoregressive Integrated Moving Average (ARIMA) model into the X-11 method to extrapolate original time series data for one year at both ends of the series. This helped to deal with the 'end points' problem and to obtain robust estimates of seasonal factors in a scenario when seasonality is moving rapidly in a stochastic way. The US Census Bureau developed X-12-ARIMA as an enhanced version of X-11 and added a feature called RegARIMA, which has an option of built-in or user-defined regressors that enable estimation of stock trading day and holiday effects as well as disruptions in the series such as sudden changes in levels (US Census Bureau, 2011).

US Census Bureau's latest X-13 ARIMA-SEATS (Signal Extraction in ARIMA Time Series) is an enhanced version of the X-11 variant with two additional options, *viz.*, TRAMO (Time series Regression with ARIMA Noise, Missing Values and Outliers) for automatic model selection and Seasonal Extraction in ARIMA Time Series (SEATS) for conducting the seasonal adjustment procedure (Gomez, *et al.*, 1996; 2001a; 2001b; US Census Bureau, 2011).

III. Data and Methodology

In line with the best country practices and upholding standards set in the past in the Reserve Bank, the macroeconomic indicators covered here are monetary, banking, price statistics, production data, service sector indicators and merchandise trade. In recognition of the rapid proliferation of alternate modes of payment in India, viz., real time gross settlements (RTGS), paper clearing, retail electronic clearing (REC) and card payment, they are also subjected to seasonality analyses. Specifically, 80 monthly macroeconomic variables disaggregated by sector include 14 monetary and banking indicators, 21 categories of indices relating to consumer prices, nine relating to wholesale prices, 23 on industrial production, six on service sector indicators, three on merchandise trade and four series on alternative payment indicators. Seasonal factors are mostly derived from time series dating back to April 1994 (Annex Table 1).

Seasonal factors have been estimated under multiplicative model by using the X13-ARIMA-SEATS software of the US Census Bureau, after configuring it to suit Indian conditions, *e.g.*, incorporating Diwali and Indian trading day effects.

Seasonal adjustment can be done in two ways; i) direct approach - applying the seasonal adjustment procedure directly to the aggregate series; and ii) indirect approach – first seasonally adjusting each components of the composite series and then summing (aggregating) the components to get seasonally adjusted composite (Manna *et al.*, 2003). The article follows the direct approach.

IV. Analysis of Results

All the macroeconomic variables considered here exhibit different seasonality (Annex Tables 2 and 3)¹. Of the 14 major monetary and banking indicators, 11 recorded seasonal peaks during March or April (around the financial year closure), whereas seasonal troughs for the majority of these series can be located either

in August or in December. For example, bank loans registered a seasonal peak in March, whereas banks' investments register a seasonal trough in the same month. Demand deposits of scheduled commercial banks (SCBs) exhibited the highest seasonal variation (average seasonal factor (SF) range² at 9.3) followed by reserve money (average SF range at 6.0) and cash in hand and balances with RBI (SCBs) (average SF range at 5.8). On the other hand, time deposits of SCBs, exhibited the smallest seasonal variation (average SF range at 1.3) indicating preference to banks' deposits as a savings avenue for fixed return and low risk (Annex Table 4).

Turning to prices, the Consumer Price Index (CPI) headline experiences seasonal upside pressure between July and November, which is largely due to the prices of food and beverages. CPI-food is driven by the seasonal patterns of prices of vegetables. Prices of fruits peak during the summer (April - August) and those of vegetables around the monsoon (July -November) due to lower availability and persistent demand (Chart 1).



¹ In case data are available for less than ten years, average for the corresponding period is taken.

² Range, a measure of dispersion, is calculated as the difference between maximum and minimum of monthly seasonal factors. Higher value of range indicates higher seasonality in the variable yielding to heightened activities/prices during a particular period of a year. 'Average seasonal factor range' is the range of average seasonal factors for the last ten years.

CPI-vegetables showed the highest seasonal variation (nine-year average SF range at 23.0). Among vegetables, prices of tomatoes, onions and potatoes recorded average SF range of 65.6, 40.4 and 35.6, respectively. Seasonal variation in fruits prices was found to be lower (average SF range of 6.3) than those of vegetables. Further, seasonal variations in the prices of cereals and products were found to be lower (average SF range at 0.7) than that of pulses and products (average SF range at 3.2), where mismatches between supply and demand were persistent, possibly caused by production uncertainty and diet shifts linked to the economic development. On the other hand, CPI - nonalcoholic beverages exhibited the smallest seasonal variation (average SF range at 0.3), which could be attributed to rising awareness about healthy lifestyle and wellness among consumers. Seasonality in the aggregate CPI series [CPI-Combined, CPI for Industrial Workers (CPI-IW), CPI for Agricultural Labourers (CPI-AL) and CPI for Rural Labourers (CPI-RL)] is low while it is pronounced in some of the components, mainly food items (Annex Table 4).

Seasonal troughs in WPI series were concentrated in only two months (March and December) relative to the distribution of seasonal peaks. Seasonal fluctuations in the WPI-all commodities were largely driven by prices of primary articles, especially food, which have a seasonal pattern similar to CPI-food and beverages. Prices of fuel and power recorded the highest seasonal variation (average SF range at 19.4) and among manufactured products group, manufacture of food products showed the lowest seasonal variation (average SF range at 2.2) (Annex Table 4).

As regards seasonality in output, industrial production is highly seasonal. The index of industrial production (IIP) showed an average SF range of 13.0. Among the major sectors, mining had the highest seasonal variation (average SF range at 30.8); under the use-based classification, capital goods had the highest seasonal fluctuation (average SF range at a

35.1). Seasonal peaks in the IIP series mostly occurred in March, the last month of the financial year, which could be due to achieving annual targets; seasonal troughs, on the other hand, were scattered. A seasonal moderation in cement production was observed between July to November, which is the monsoon season in major parts of India. Fertiliser production registered a seasonal decline between February to June, which is the harvesting time of *rabi* crops and a lean season for agricultural activity.

Four of the six services sector indicators recorded seasonal peaks in March. Only in the case of domestic and international passenger traffic, the seasonal peak coincided with the holiday seasons in May and January, respectively.

The seasonal peaks for merchandise exports remained unchanged in March, coinciding with the peak in the industrial production while non-oil nongold imports also remained unchanged in December, but the peak in imports shifted to October from March earlier (Chart 2 & Annex Table 2).

The analysis of alternate payment modes shows that RTGS, paper clearing and retail electronic clearance recorded high seasonal variations and peak





during March, indicating heightened usage of online transfers on annual financial year closing, whereas the seasonal peak of usage of card payments mode was found to be during October, consumption – demand around the festival season. The seasonal troughs, on the other hand, were found to be distributed over February, September and November (Chart 3 and

V. Has Seasonality Changed?

A simple way of identifying change in seasonality patterns in 2019-20 would be to compare the outcomes for 2019-20 with the average seasonal factors for the last five years (2014-15 to 2018-19). Out of the 80 selected series, the peak and the trough for 41 series remained unchanged whereas four series recorded shifts in both peaks and troughs (Chart 4 and Annex



Annex table 2).

table 5). This change in seasonality was noticed mainly in the case of CPI. The seasonal peak in CPI-all commodities advanced to November in 2019-20 from October earlier, mainly reflecting change in the prices of vegetables. Seasonal peaks in the prices of CPI-food and beverages also shifted to November from August earlier which got aligned with the seasonal peak in the prices of food articles in the wholesale market. Further, greater convergence in the seasonal peaks of the components of industrial production was found in 2019-20.

In order to explore 'moving seasonality'- changes in seasonal factors over time - detecting the presence of secular trend is critical. A downward (upward) trend in the seasonal fluctuation of a series shows decline (increase) in seasonal variation over time.

While in majority of the cases, seasonal variation/ fluctuations (difference between the maximum and the minimum monthly seasonal factors) in 2019-20 remained similar to the previous five years' average (Chart 5), empirical evidence indicates that seasonal fluctuations moderated for 35 series over a longer time horizon of last 10 years (Annex table 6). On the other hand, seasonality became more pronounced in another 22 series.

Seasonal fluctuations in monetary and banking aggregates either moderated or remained broadly unchanged during last 10 years, arguably reflecting better availability of banking services. Though seasonal fluctuation in general IIP remained unchanged, mining, manufacturing and electricity recorded rise in seasonal variation. The mining activity, especially coal, is adversely affected due to rain and slowdown in railway transport during the monsoon season. Hence, supposedly the higher production during active season to meet rising demand for coal and other minerals explains the rise in seasonal fluctuation over time. Seasonal variation moderated for the majority of CPIcombined elements; retail prices of tomatoes, meat and fish exhibited higher seasonality while potato and onion prices showed lower seasonality. In the wholesale market. WPI-all commodities showed more





seasonal variation mainly due to prices of chemicals and chemical products (Chart 6).

VI. Conclusion

Seasonal adjustment has a crucial role to play in an accurate reading of the economy and in making policy decisions. It is observed that the heightened seasonal demand for currency in circulation around financial year-end and beginning of agricultural season, *viz.*, March and June gives a cue for efficient currency management in the country, similarly, the knowledge of seasonal pattern in banks' deposits can be used in managing the banks' resources optimally.

Driven by the prices of vegetables, CPI headline inflation exhibited price pressures during the monsoon season. The seasonal peak for general retail prices got advanced to November in 2019-20 from October, aligning with the wholesale market. This calls for efficient supply chain management during such periods.

Majority of categories of industrial production peak in March whereas the production of consumer non-durables peak in December. The seasonal peak in the manufacture of textiles had advanced to December, the winter season in the country, from August earlier. Imports and exports experience a peak during March. Further, bank credit peaks in March, apparently to cater to the year-end pressure of target achievements. Well strategizing credit availability by banks and credit institutions, keeping in mind the demand around festivals, will provide stimulus to the productive activities.

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Annex

Table 1: Time Period Used for Estimating Seasonal Fa	ctors
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Name of Sectors/Variables	Time Period	Name of Sectors/Variables	Time Period
Monetary and Banking Indicators (14 series)		Index of Industrial Production (23 series)	
A.1.1 Broad Money (M3)		E. IIP (Base $2011-12 = 100$) General Index	April 1994
A.1.1.1 Net Bank Credit to Government			to March
A.1.1.2 Bank Credit to Commercial Sector			2020
A.1.2 Narrow Money (M1)	-	E.1.1 IIP - Primary goods	
A.1.3 Reserve Money (RM)		E.1.2 IIP - Capital goods	
A.1.3.1 Currency in Circulation		E.1.3 IIP - Intermediate goods	April 2012
A.2.1 Aggregate Deposits (SCBs)	April 1994	E.1.4 IIP - Infrastructure/ construction goods	to March
A 2 1 1 Demand Deposits (SCBs)	to March	E.1.5 IIP - Consumer goods	2020
A 2 1 2 Time Deposits (SCBs)	2020	E.1.5.1 IIP - Consumer durables	
A 3.1 Cash in Hand and Balances with RBL (SCBs)	-	E.1.5.2 IIP - Consumer non-durables	
A 3 2 Bank Credit (SCBs)	-	E.2.1 IIP - Mining	April 1994
A 3 2 1 Loans Cash Credits and Overdrafts (SCBs)	-	E.2.2 IIP - Manufacturing	to March
A 3 2 2 Non-Food Credit (SCBs)	-		2020
A 3 3 Investments (SCBs)	-	E.2.2.1 IIP - Manufacture of food products	.
Price Indices[CPI: 21 series and WPI: 0 series]		E.2.2.2 IIP - Manufacture of beverages	April 2012
B CPI (Base, 2012 $-$ 100) All Commodities		E.2.2.3 IIP - Manufacture of textiles	to March
B 1 CPI Food and heverages	-	E.2.2.4 IIP - Manufacture of chemicals and chemical products	2020
D.1 CPI - rood and beverages	-	E.2.2.5 IIP - Manufacture of motor vehicles, trailers and	
D.1.1 CPI - Celeals and products			4 11004
B.I. 2 CPI - Meat and fish		E.2.3 IIP - Electricity	April 1994
	-		2020
B.1.4 CPI - Milk and products		F 3 Cement Production	2020
B.I. 5 CPI – Fruits	-	F 4 Steel Production	
B.1.6 CPI - Vegetables	January	F 5 Coal Production	
B.1.0.1 CPI – Potato	2011 to	F 6 Crude Oil Production	April 2004
B.1 .6.2 CPI – Onion	March	F 7 Petroleum Refinery Production	to March
B.1 .6.3 CPI – Tomato	2020	F & Fertiliser Production	2020
B.1 .7 CPI - Pulses and products	-	F 0 Natural Gas Production	
B.1 .8 CPI – Spices	-	Service sector Indicators (6 series)	
B.1 .9 CPI - Non-alcoholic beverages	-	F1 Production of Commercial Motor Vehicles	
B.1 .10 CPI - Prepared meals, snacks, sweets etc.	-	F2 Cargo handled at Major Ports	
B.2 CPI - Clothing and footwear		F3 Railway Freight Traffic	Amril 1004
B.3 CPI – Housing		F4 Sales of Commercial Motor Vehicles	to March
B.4 CPI - Miscellaneous		F5 Passenger flown (Km) - Domestic	2020
C.1 Consumer Price Index for Industrial Workers		F6 Passenger flown (Km) - International	
(Base: 2001=100)	January	Merchandise Trade (3 series)	
C.2 Consumer Price Index for Agricultural Labourers	2000 to	G 1 Exports	
(Base: 1986-87=100)	March	G.2 Imports	April 1994
C.3 Consumer Price Index for Rural Labourers	2020	G 3 Non-Oil Non-Gold Imports	to March
(Base: 1986-8/=100)		Alternate Modes of Payment (4 Series)	2020
D. WPI (Base: 2011-12=100) All Commodities	-	H 1 Real Time Gross Settlement	April 2004
D.1 WPI - Primary Articles	-	In I Real Time Gross Sectionent	to March
D.1.1 WPI - Food Articles			2020
D.2 WPI - FUEL & POWER	April 1994	H.2 Paper Clearing	April 2005
D.3 WPI - MANUFACTURED PRODUCTS	to March		to March
D.3.1 WPI - Manufacture of Food Products	2020		2020
D.3.2 WPI - Manufacture of Chemicals & Chemical Products		H.3 Retail Electronic Clearing	April 2004
D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals Products		H 4 Cards	to March
D.3.4 WPI - Manufacture of Machinery & Machine Tools		11.7 Calus	2020

Note:

1. CPI-Combined data is available from January 2011 only.

2. CPI-IW, AL & RL data are broadly aligned with the latest base year of CPI-IW.

3. Data on IIP use-based and disaggregated sectors (NIC-2 digit level) was considered since Apr 2012 as back series could not be computed due to major changes in coverage from previous base year.

4. All the data being used for this study are publically available in the Database on India Economy, Reserve Bank of India.

Sectors/sub-sectors		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Manatana and Daultina	Peak	4	1		1	1							7	14
Monetary and Banking	Trough					4	1	2		4	2		1	14
CDI	Peak			1	2	1	2	3	8	2	2			21
CPI	Trough	7	4	2					1			3	4	21
TATES	Peak	2	2		2	1	1	1						9
WPI	Trough									4	1	1	3	9
	Peak		2		1	1		3		2			14	23
Industrial Production	Trough	6		1		3	5		2	1		5		23
Counting In Hardon	Peak		1								1		4	6
Services indicators	Trough	1		1			4							6
n (1m 1	Peak							1		1			1	3
External Trade	Trough								1			2		3
	Peak							1					3	4
Alternate Modes of Payment	Trough						1		1			2		4
m-+-1	Peak	6	6	1	6	4	3	9	8	5	3	0	29	80
10(1)	Trough	14	4	4	0	7	11	2	5	9	3	13	8	80

Table 2: No. of Peaks and Trough Observed Over Different Months*

*Note:

1. In general, seasonal peaks and troughs have been decided based on the average seasonal factors of last ten years.

2. Blank cells indicate no peak or trough observed.

Table 3: Average* Month	y Seasonal Factors of Selected Economic Time Series (0	Contd.)
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Series/Month	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	2	3	4	5	6	7	8	9	10	11	12	13
Monetary and Banking Indicators(14 series)												
A.1.1 Broad Money (M3)	101.2	100.8	100.0	100.1	99.8	99.6	99.9	99.6	99.2	99.5	99.6	100.7
A.1.1.1 Net Bank Credit to Government	101.2	101.1	100.8	101.8	101.2	99.7	99.8	99.7	97.9	99.1	99.1	98.7
A.1.1.2 Bank Credit to Commercial Sector	100.9	100.3	100.2	99.5	99.1	99.3	99.4	99.2	99.7	100.0	100.4	102.2
A.1.2 Narrow Money (M1)	102.0	101.4	100.6	99.2	98.8	99.1	99.0	98.7	98.8	98.7	99.9	103.7
A.1.3 Reserve Money (RM)	102.0	101.7	101.1	99.7	98.9	98.4	98.2	98.9	98.8	99.0	99.2	104.1
A.1.3.1 Currency in Circulation	102.7	103.0	101.8	99.7	98.8	97.9	98.4	99.0	99.0	99.3	100.0	100.4
A.2.1 Aggregate Deposits (SCBs)	100.9	100.4	99.8	100.2	99.9	99.8	100.1	99.8	99.4	99.5	99.5	100.8
A.2.1.1 Demand Deposits (SCBs)	101.1	99.4	99.6	98.4	98.3	101.0	98.0	98.9	100.7	98.2	98.9	107.3
A.2.1.2 Time Deposits (SCBs)	100.7	100.5	99.8	100.3	100.0	99.6	100.4	100.0	99.4	99.7	99.6	100.0
A.3.1 Cash in Hand and Balances with RBI (SCBs)	101.8	99.7	101.7	99.9	100.5	101.1	98.7	101.4	101.2	96.1	99.0	99.7
A.3.2 Bank Credit (SCBs)	101.0	100.3	100.3	99.5	99.0	99.3	99.2	99.1	99.9	99.9	100.3	102.3
A.3.2.1 Loans, Cash, Credits and Overdrafts (SCBs)	100.6	100.2	100.4	99.1	98.9	100.2	99.4	99.2	100.0	99.9	100.1	102.0
A.3.2.2 Non-Food Credit (SCBs)	101.0	100.2	100.2	99.3	99.0	99.5	99.4	99.1	99.8	99.8	100.1	102.5
A.3.3 Investments (SCBs)	100.1	100.4	100.2	101.0	101.6	101.0	100.8	100.5	99.0	99.1	99.1	97.6
Price Indices [CPI: 21 series and WPI: 9 series]												
B. CPI (Base: 2012 = 100) All Commodities	99.1	99.3	99.9	100.6	100.8	100.8	101.0	100.8	100.0	99.6	99.1	99.0
B.1 CPI - Food and beverages	98.2	98.8	100.1	101.4	101.8	101.6	101.7	101.4	99.9	98.9	98.2	97.9
B.1 .1 CPI - Cereals and products	99.7	99.6	99.7	99.8	100.0	100.1	100.3	100.3	100.2	100.2	100.2	100.0
B.1 .2 CPI - Meat and fish	99.7	100.5	101.9	101.9	100.8	100.0	99.4	98.8	98.8	99.6	99.3	99.4
B.1 .3 CPI - Egg	97.0	96.9	98.4	100.2	99.3	98.9	99.1	101.2	103.0	103.8	102.1	100.0
B.1 .4 CPI - Milk and products	99.6	99.9	100.0	100.2	100.2	100.2	100.1	100.2	100.1	99.9	99.9	99.7
B.1 .5 CPI - Fruits	102.5	102.7	102.6	103.2	102.2	99.3	99.0	98.8	97.7	97.0	96.9	98.1
B.1 .6 CPI - Vegetables	89.4	92.8	98.4	108.9	110.3	110.3	111.3	108.6	99.0	93.3	89.7	88.3
B.1 .6.1 CPI - Potato	86.9	96.1	103.2	109.5	113.0	112.3	114.3	115.3	102.3	86.7	79.6	80.6
B.1 .6.2 CPI - Onion	80.7	79.8	85.7	98.1	109.6	115.1	118.7	120.1	110.4	102.6	94.4	84.7
B.1 .6.3 CPI - Tomato	80.7	92.1	110.6	138.4	122.6	108.7	108.8	115.8	92.1	81.4	72.8	75.7
B.1 .7 CPI - Pulses and products	98.5	98.9	99.4	99.9	100.6	101.3	101.5	101.7	100.7	100.0	99.0	98.5
B.1 .8 CPI - Spices	99.3	99.4	99.6	99.9	100.2	100.3	100.4	100.4	100.5	100.3	99.9	99.6
B.1 .9 CPI - Non-alcoholic beverages	99.9	100.0	100.0	100.1	100.1	100.1	100.1	100.1	100.0	100.0	99.9	99.8
B.1 .10 CPI - Prepared meals, snacks, sweets etc.	99.8	99.7	99.8	99.9	100.0	100.1	100.1	100.3	100.2	100.1	100.1	99.9
B.2 CPI - Clothing and footwear	99.9	99.8	99.8	99.8	99.9	100.0	100.1	100.2	100.3	100.1	100.1	99.9
B.3 CPI - Housing	100.2	100.1	99.2	99.5	99.9	100.0	100.2	100.3	99.7	100.4	100.3	100.2
B.4 CPI - Miscellaneous	99.7	99.8	99.8	100.1	100.1	100.3	100.3	100.2	100.0	100.0	99.9	99.8
C.1 Consumer Price Index for Industrial Workers (Base: 2001 = 100)	98.8	99.2	99.4	99.8	101.0	100.9	100.7	101.1	100.8	99.8	99.5	99.0
C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100)	98.9	99.1	99.5	100.1	100.6	100.8	100.8	101.0	100.6	100.1	99.6	99.0
C.3 Consumer Price Index for Rural Labourers (Base: 1986-87=100)	98.9	99.2	99.5	100.2	100.4	100.8	100.8	100.9	100.5	100.1	99.6	99.1
D. WPL (Base: 2011-12=100) All Commodities	99.6	99.7	100.1	100.2	100.2	100.2	100.3	100.1	99.9	100.0	99.9	99.6
D 1 WPL - PRIMARY ARTICLES	00.8	100.1	100.0	100.2	100.2	100.6	100.5	100.3	00 5	00.5	00.3	00 3
D.1.1 WPL - Food Articles	00 1	99.5	100.4	101 5	102.0	101 4	101 2	101 3	00 3	98.6	08.0	97.6
D.2 WPI - FUEL & POWER	95.2	96.8	101.7	106.0	107.5	107.3	108.1	108.1	97.2	94.2	88.7	88.0
D.3 WPI - MANUFACTURED PRODUCTS	98.4	99.1	100.4	101.7	101.9	101.8	102.3	102.1	99.3	98.7	97.2	97.0
D.3.1 WPL - Manufacture of Food Products	98.0	99.0	90.3	100.0	100.5	100.6	101.0	101.0	100.6	100.3	99.8	99.1
D.3.2 WPI - Manufacture of Chemicals & Chemical Products	99.0	99.4	99.7	100.7	101.0	101.0	101.2	100.6	99.7	99.4	99.4	98.0
D.3.3 WPI - Manufacture of Basic Metals Allovs & Metals Products	98.9	98.0	97.7	98.5	99.4	99.4	99.6	101.0	101.6	102.6	102.3	101.0
D.3.4 WPI - Manufacture of Machinery & Machine Tools	97.6	98.7	99.0	100.5	101.4	101.4	103.3	102.7	101.4	99.5	97.7	97.0

Series/Month	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	2	3	4	5	6	7	8	9	10	11	12	13
Index of Industrial Production (23 series)												
E. IIP (Base 2011-12 = A51:A72 100) General Index	96.6	100.1	98.6	98.0	96.8	97.9	99.5	97.8	103.2	103.2	98.7	109.6
E.1.1 IIP - Primary goods	97.2	102.4	99.4	97.7	97.3	94.9	100.4	98.3	103.5	104.2	96.0	108.8
E.1.2 IIP - Capital goods	89.2	97.1	98.7	94.8	96.7	102.1	96.4	97.8	101.8	98.1	102.6	124.3
E.1.3 IIP - Intermediate goods	98.0	100.1	98.5	100.4	100.0	99.9	99.0	97.7	101.1	100.9	97.4	107.5
E.1.4 IIP - Infrastructure/ construction goods	99.5	104.3	101.5	99.9	97.3	96.0	97.7	94.4	100.4	103.6	99.1	107.0
E.1.5 IIP - Consumer goods	95.4	98.6	96.4	97.7	97.1	100.4	101.7	99.3	103.9	103.1	100.1	106.2
E.1.5.1 IIP - Consumer durables	95.8	99.2	97.2	98.8	97.9	105.5	107.8	99.3	97.6	98.9	96.5	104.6
E.1.5.2 IIP - Consumer non-durables	94.9	99.5	95.3	95.8	95.9	96.1	96.1	100.8	108.1	106.3	102.8	108.7
E.2.1 IIP - Mining	97.9	100.6	96.1	91.2	89.6	88.6	97.6	100.5	107.2	109.0	103.0	119.4
E.2.2 IIP - Manufacturing	96.0	99.7	98.4	98.7	97.4	99.0	99.7	97.9	103.1	102.6	98.8	108.5
E.2.2.1 IIP - Manufacture of food products	94.2	88.2	85.8	90.3	88.4	89.0	94.6	104.2	122.5	119.9	112.8	110.0
E.2.2.2 IIP - Manufacture of beverages	119.8	130.2	108.0	88.9	85.8	89.8	91.0	85.9	90.0	95.1	98.8	118.1
E.2.2.3 IIP - Manufacture of textiles	97.8	99.0	98.0	100.9	102.4	101.1	101.3	99.3	101.6	100.9	96.1	101.7
E.2.2.4 IIP - Manufacture of chemicals and chemical products	94.7	100.5	99.5	103.8	101.6	101.0	100.5	98.5	101.1	100.8	93.8	104.7
E.2.2.5 IIP - Manufacture of motor vehicles, trailers and												
semi-trailers	99.0	100.5	97.4	100.2	99.4	101.1	100.4	100.8	93.0	99.8	100.2	108.3
E.2.3 IIP - Electricity	100.1	105.2	100.5	102.6	102.3	99.6	102.5	94.7	97.7	99.0	92.2	102.5
E.3 Cement Production	103.9	103.4	100.5	96.8	90.5	91.8	98.6	92.5	102.0	105.9	100.9	112.9
E.4 Steel Production	98.5	104.2	99.3	100.1	98.8	96.6	98.9	95.7	100.4	103.7	98.1	105.7
E.5 Coal Production	91.8	94.1	89.7	83.0	81.4	81.4	95.3	103.0	113.3	117.0	112.1	138.2
E.6 Crude Oil Production	98.9	101.8	99.3	101.7	101.4	97.9	101.9	99.0	102.0	101.3	92.2	102.7
E.7 Petroleum Refinery Production	95.8	100.9	99.3	101.3	100.5	95.5	102.2	98.6	103.2	102.8	95.2	104.6
E.8 Fertiliser Production	82.2	95.2	99.4	104.2	106.1	104.5	107.3	104.1	105.5	102.9	93.7	95.3
E.9 Natural Gas Production	97.4	101.4	98.6	101.9	101.5	98.6	102.4	99.8	102.6	101.9	91.8	102.1
Service Sector Indicators (6 series)												
F.1 Production of Commercial Motor Vehicles	95.6	96.5	92.1	95.9	96.8	98.3	101.5	99.8	92.7	106.7	107.2	116.7
F.2 Cargo handled at Major Ports	100.0	103.9	97.3	99.5	98.3	93.1	98.5	98.7	102.5	104.5	94.8	108.5
F.3 Railway Freight Traffic	97.3	100.9	97.1	98.1	95.2	93.5	98.4	98.4	103.5	106.5	97.7	113.2
F.4 Sales of Commercial Motor Vehicles	86.6	91.1	96.3	93.6	95.4	106.7	99.4	94.4	97.9	104.5	104.6	129.9
F.5 Passenger flown (Km) - Domestic	100.7	110.7	102.4	96.9	94.7	90.6	99.1	100.2	107.3	102.9	96.0	99.1
F.6 Passenger flown (Km) - International	96.4	101.2	99.6	103.4	102.8	93.0	93.5	95.7	107.1	110.9	95.0	102.5
Merchandise Trade (3 series)												
G.1 Exports	97.2	101.2	99.0	98.6	97.3	102.4	98.8	95.0	102.3	98.0	96.6	113.8
G.2 Imports	98.0	103.3	99.3	102.3	98.7	100.9	104.6	99.3	100.9	97.9	92.9	103.0
G.3 Non-Oil Non-Gold Imports	95.7	99.3	101.3	103.4	99.2	102.0	102.6	101.7	104.7	99.2	91.9	98.9
Alternate modes of Payment (4 series)												
H.1 RTGS	97.1	95.2	106.6	97.7	92.0	104.2	98.6	91.7	102.2	99.0	89.5	126.4
H.2 Paper Clearing	105.1	99.4	96.5	100.0	95.6	93.2	104.5	95.9	99.6	99.1	94.1	116.5
H.3 REC	104.1	97.0	98.7	101.8	96.3	97.0	101.0	90.5	101.9	99.1	92.2	121.6
H.4 Cards	99.8	101.8	98.4	99.6	99.5	95.7	105.6	100.2	103.4	101.6	92.5	101.5

Table 3: Average* Monthly Seasonal F	Factors of Selected Economic Time Series (C	'oncld.)
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*: Average of last ten years' monthly seasonal factors, in general. Here, the average monthly seasonal factors have been computed on the basis of last 10 years (i.e., April 2010 to March 2020)

Note:

1. Seasonal factors: Deviation from 100 indicates presence of seasonality. For instance, seasonal factor of IIP-Manufacturing increases during March(108.5) and decreases during April (96.0) indicating that manufacturing production rises during March and declines during February due to seasonal fluctuations.

2. For all CPI indices, the average monthly seasonal factors have been computed on the basis of last 9 years (i.e., January 2011 to March 2019).

3. The average linking factor has been used to compute the back series of IIP (Overall, mining, manufacturing and electricity) and WPI series. The average linking factor was calculated based on IIP/ WPI series for the common period from Apr 2012 to Mar 2020. The back series of IIP, however, was not compiled at further disaggregated level (use based and NIC-2 digit level) due to major changes in coverage.

4. Numbers marked in '**bold**' are peaks and troughs of respective series.

Image: Constraint of the series Image: Conseries Image: Constraint of the seri	Series \ Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	Range
Image: Control of the second												of
International states Internati												Average
1 2 3 4 5 6 7 8 9 10 11 12 An.1 Mead Money (M3) 2.3 2.1 1.9 1.8 1.7 1.8 2.0 2.1 2.0 1.5 1.4 4.0 4.4 3.5 6.1 1.5 1.4 1.1 1.0 2.0 2.0 1.5 1.4 1.0 1.0 1.1 1.0												SF
Monetary and Baking indicators 14 series) 2 2 1 10 1.8 1.7 1.8 2.0 2.1 1.1 1.0 0.9 0.8 0.8 0.8 1.5 1.3 3.2 2.2 1.1 0.1 1.1 1.1 0.1 0.1 1.5 1.4 1.7 1.7 2.6 1.2 2.2 1.2 2.3 2.3 3.3 3.1 3.2 <		2	3	4	5	6	/	8	9	10	11	12
A.1.1 area and anong yay 2.5 2.1 1.9 1.8 2.0 2.1 2.2 2.2 2.2 <td< td=""><td>Monetary and Banking Indicators (14 series)</td><td>22</td><td>21</td><td>1.0</td><td>1.0</td><td>17</td><td>1.0</td><td>2.0</td><td>21</td><td>21</td><td>21</td><td>20</td></td<>	Monetary and Banking Indicators (14 series)	22	21	1.0	1.0	17	1.0	2.0	21	21	21	20
A.1.1. Path Credit Coveriment 4.0 4.1 3.8 3.0	A.I.I Broad Money (M3)	2.3	2.1	1.9	1.8	1./	1.8	2.0	2.1	2.1	2.1	2.0
A1.1.2 Mark Chefit to Commercial Sector 3.7 3.9 2.8 2.7 2.8 3.0 3.1 3.2 3.4 4.2 4.4 4.5 4.9 5.4 5.4 5.3 5.3 4.4 5.4 5.3 5.3 3.4 3.4 3.2 2.2 2.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.4 3.4 3.3 3.4 3.4 3.3 3.4 3.4 3.3 3.4 3.4 3.3 3.4 3.4 3.3 3.3 3.4	A.I.I.I Net Bank Credit to Government	4.0	4.1	3.8	3.0	3.5	3.0	3./	3.9	4.0	3.9	3.8
A.12. Arrow Money (IM) 4.7 4.1 4.0 4.2 4.4 5.3 0.1 7.0 7.8 8.2 3.0 A.1.3 Beerrow Money (IM) 7.1 6.8 6.4 1.57 5.4 5.2 5.4 5.2 5.4 5.2 5.4 5.2 5.4 5.4 4.8 4.7 4.7 4.8 4.9 5.2 A.2.1 Aggrage Leposits (SCBs) 10.3 1.6 1.4 1.1 1.0 0.8 0.8 0.8 0.8 1.3 A.2.1.2 Time Deposits (SCBs) 10.7 0.7 7.4 4.5 4.4 9 5.4 5.8 6.0 6.1 5.8 3.3 3.1 3.2 2.5 2.2 2.4 2.4 9 5.4 5.8 6.0 6.0 5.9 3.1 3.6 3.0 3.1 3.2 2.5 2.5 2.2 2.4 2.4 9 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.2 5.0 5.0 5.0 5.2 5.0 5.0 5.0 5.2 5.3 5.1 5.1	A.1.1.2 Bank Credit to Commercial Sector	3./	3.3	3.0	2.8	2./	2.8	3.0	3.1	3.2	3.2	3.1
A.13 Reserve Money (KN) /.1 0.88 6.4 6.1 >.2 5.4 9.2 4.8 4.9 6.0 A.13.1 Gurreny in Circulation 59 55 52 6.4 4.7 4.7 4.7 4.7 4.8 49 5.2 A.2.1 Demand Deposits (SCBs) 2.0 1.0 1.6 1.4 1.1 1.0 0.0 0.8 0.8 0.8 0.8 1.13 A.2.1 Demand Deposits (SCBs) 2.0 1.0 1.6 1.4 1.1 1.0 0.0 0.8 0.8 0.8 0.8 1.3 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.4 3.4 3.3 4.0 A.3.2 Non-Kood Credit (SCBs) 4.0 4.4 4.4 4.1 3.1 3.1 3.2 3.5 3.4 3.4 3.3 4.0 Prote Indices (CPI: 2 tototal Commodutes 2.3 2.2 2.1 2.0 1.0 1.8 1.7 1.7 1.7 </td <td>A.1.2 Narrow Money (M1)</td> <td>4./</td> <td>4.1</td> <td>4.0</td> <td>4.2</td> <td>4.4</td> <td>5.3</td> <td>0.1</td> <td>/.0</td> <td>/.8</td> <td>8.2</td> <td>5.0</td>	A.1.2 Narrow Money (M1)	4./	4.1	4.0	4.2	4.4	5.3	0.1	/.0	/.8	8.2	5.0
A1.31 Currency in Circulation 5.9 5.0 5.0 5.0 6.8 4.7 4.7 4.7 4.8 4.9 5.2 A2.1 Aggregate heposits (SCBs) 1.0 8.5 6.0 6.0 6.9 9.5 1.1 1.0 1.0 8.5 6.0 6.0 6.9 9.5 1.1 1.0 0.9 0.8 8.8 1.3 A.2.1 Lorm Deposits (SCBs) 1.0 0.1 7.0 5.4 4.5 4.0 5.4 4.5 4.0 5.4 5.5 1.1 5.0 3.1 3.2 2.7 3.1 3.6 3.1 3.2 2.7 3.1 3.6 3.0 4.0 3.6 3.1 3.2 3.5 3.1 3.2 3.5 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.1 3.1 3.2 3.1 3.1 3.2 3.1 3.1 3.2 3.1 3.1 3.2 3.2 3.1 3.1 3.2 3.2 3.1 3.1 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.1 3	A.1.3 Reserve Money (RM)	/.1	6.8	6.4	6.1	5./	5.4	5.2	4.9	4.8	4./	6.0
A.21 Aggregate beposits (SCBs) 2.3 2.0 1.7 1.6 1.5 1.4 1.7 1.9 2.0 2.0 1.5 A.211 Demand Deposits (SCBs) 1.0 8.5 6.6 6.9 9.5 11.9 15.9 14.8 15.1 9.3 A.21 Lormand Deposits (SCBs) 2.0 1.0 7.0 5.4 4.5 4.9 5.4 5.8 6.0 6.1 5.8 A.3.2 bank Credit S(SB) 4.0 5.6 3.7 7.2 2.7 2.4 2.4 2.7 3.0 3.2 3.4 3.3 4.0 3.5 5.1 3.2 3.4 3.4 3.3 4.0 3.5 5.3 3.4 3.4 3.3 4.0 A.3.2 Non-Kodit Credit sand Overdrafts (SCBs) 4.8 4.6 4.4 4.1 3.7 3.5 3.5 3.4 3.4 3.3 4.0 A.3.2 Non-Kodit Credit sand Overdrafts (SCBs) 4.8 4.6 4.4 4.1 3.7 3.5 3.5 3.4 3.4 3.3 4.0 3.0 3.0 3.1 3.1 3.1 3.1 <td>A.1.3.1 Currency in Circulation</td> <td>5.9</td> <td>5.6</td> <td>5.2</td> <td>5.0</td> <td>4.8</td> <td>4./</td> <td>4./</td> <td>4./</td> <td>4.8</td> <td>4.9</td> <td>5.2</td>	A.1.3.1 Currency in Circulation	5.9	5.6	5.2	5.0	4.8	4./	4./	4./	4.8	4.9	5.2
A.2.1.1 bernard Deposits (SCBs) 11.0 8.5 0.0 0.0 0.9 0.5 1.9 1.6 1.4 1.1 1.0 0.9 0.8 0.8 8.8 1.3 A.2.1 Zrime Deposits (SCBs) 10.7 0.1 7.0 5.4 4.5 4.9 5.4 5.8 6.0 6.1 5.8 A.3.2 tash tredit (SCBs) 4.0 3.6 3.2 2.0 2.9 2.9 2.4 4.5 3.6 3.9 4.0 3.5 3.1 3.2 2.3 3.3 3.3 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.	A.2.1 Aggregate Deposits (SCBs)	2.3	2.0	1./	1.6	1.5	1.4	1./	1.9	2.0	2.0	1.5
A2.1.2 Time Deposits (SCBs) 20 1.9 1.6 1.4 1.1 1.0 0.9 0.8 <	A.2.1.1 Demand Deposits (SCBs)	11.0	8.5	6.6	6.0	6.9	9.5	11.9	13.9	14.8	15.1	9.3
A.3.1 Cash in Hand and Balances with RBI (SCBs) 10.7 0 7.4 4.5 4.9 5.4 3.1 3.1 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.4 3.4 3.4 3.4 4.3 3.1	A.2.1.2 Time Deposits (SCBs)	2.0	1.9	1.6	1.4	1.1	1.0	0.9	0.8	0.8	0.8	1.3
A.3.2 Enank Crédit (SCBs) 4.0 3.6 3.2 3.0 2.9 2.9 3.0 3.1 3.2 3.2 3.2 3.4 3.5 3.1 A.3.2 Loans, Cach, Credits and Overdrafts (SCBs) 4.0 3.6 3.1 2.8 2.7 3.1 3.6 3.9 4.0 3.6 A.3.2 Loans, Cach, Credits and OWI: 9 series] 4.8 4.6 4.4 4.1 3.7 3.5 3.4 3.4 4.3 4.0 Price Indices (CPI: 21 sectes and WPI: 9 series) 7.2 2.4 2.4 2.0 1.9 1.8 1.7 1.7 1.7 2.0 B.1 CPI: Cenceals and products 1.0 0.0 0.8 0.7 0.7 0.7 0.6 0.6 0.7 B.1 CPI: Cenceals and products 0.9 0.8 0.7 0.7 0.6 0.5 0.4 0.4 0.3 0.8 B.1 A CPI: Milk and products 0.9 0.8 0.7 0.6 0.5 0.4 0.4 0.3 0.6 0.5 0.4 0.4 0.3 0.8 0.7 0.6 0.5 0.4	A.3.1 Cash in Hand and Balances with RBI (SCBs)	10.7	9.1	7.0	5.4	4.5	4.9	5.4	5.8	6.0	6.1	5.8
A.3.2.1 Loans. Cash. Credits and Overdrafts (SCBs) 3.7 3.2 2.7 2.4 2.4 2.4 2.7 3.0 3.2 3.4 3.5 3.1 3.6 3.9 4.0 3.9 3.5 3.4 3.4 3.3 1.0 2.8 2.7 3.1 3.6 3.4 3.4 3.3 1.0 2.5 2.7 3.1 3.6 3.4 3.4 3.3 1.0 3.9 4.0 3.9 3.4 3.4 3.3 4.0 Price Induces (CPI: 21 ento) All Commodities 2.2 2.2 2.1 2.0 1.0 1.8 1.7 1.7 1.7 1.7 7.7 3.8 3.6 3.6 3.6 3.6 3.7 3.8 3.1	A.3.2 Bank Credit (SCBs)	4.0	3.6	3.2	3.0	2.9	2.9	3.0	3.1	3.2	3.2	3.2
A.3.2 Non-Bood Credit (SCBs) 4.0 3.6 3.1 2.8 2.7 3.1 3.6 3.9 4.0 3.9 3.5 A.3.3 Investments (SCBs) 4.8 4.6 4.4 4.1 3.7 3.5 3.4 3.4 3.3 4.0 Price Indices [CPI: 21 series and WPI: 9 series] 2.1 2.0 1.9 1.8 1.7 1.7 1.7 1.7 1.7 1.7 1.8 1.7 1.7 1.7 0.6 0.6 0.7 0.7 0.7 0.6 0.6 0.7 0.7 0.7 0.6 0.6 0.7 0.7 0.7 0.6 0.6 0.7 0.7 0.7 0.6 0.6 0.7 0.7 0.6 0.6 0.6 0.7 0.7 0.6<	A.3.2.1 Loans, Cash, Credits and Overdrafts (SCBs)	3.7	3.2	2.7	2.4	2.4	2.7	3.0	3.2	3.4	3.5	3.1
A.3.3 Investments (SCBs) 4.8 4.6 4.4 4.1 3.7 3.5 3.5 3.4 3.4 3.3 4.0 Price Indices (CPI: 21 series and WPI: 9 series] E 2.3 2.2 2.1 2.0 1.9 1.8 1.7 1.7 1.7 2.0 B.1 CPI: Food and beverages 4.2 4.2 4.2 4.1 4.0 3.9 3.8 3.6 3.6 3.7 3.8 B.1 CPI: Neat and fish 3.1 3.1 3.2 3.2 3.2 3.2 3.2 3.3 3.1 3.1 B.1 2 CPI: Meat and fish 3.1 3.1 8.0 7.8 7.0 6.5 6.4 4.6 6.5 6.4 4.6 6.5 6.4 4.6 6.5 6.4 6.5 6.4 6.5 6.4 6.5 6.3 6.2 6.2 6.2 6.2 6.4 6.5 6.3 6.1 6.3 6.5 6.4 6.5 6.3 6.4 6.6 6.9 6.5 6.3 6.4 6.6 6.9 6.5 6.5 6.4 6.6 6.6 </td <td>A.3.2.2 Non-Food Credit (SCBs)</td> <td>4.0</td> <td>3.6</td> <td>3.1</td> <td>2.8</td> <td>2.7</td> <td>3.1</td> <td>3.6</td> <td>3.9</td> <td>4.0</td> <td>3.9</td> <td>3.5</td>	A.3.2.2 Non-Food Credit (SCBs)	4.0	3.6	3.1	2.8	2.7	3.1	3.6	3.9	4.0	3.9	3.5
Price Indices [CPi: 21 series and WPI: 9 series] 2.2 2.2 2.1 2.0 1.0 1.8 1.7 1.7 1.7 1.0 2.0 B. CPI (Base: 2012 = 100) All commodities 4.2 4.2 4.2 4.1 4.0 3.0 3.8 3.6 3.6 3.7 3.8 B.1 CPI - Food and beverages 4.2 4.2 4.2 4.1 4.0 3.0 3.8 3.6 3.6 3.7 3.8 B.1 CPI - Food and beverages 4.0 3.1 3.1 3.2 3.2 3.2 3.2 3.3 3.1 B.1 A CPI - Mata and fish 3.1 3.1 3.2 3.2 5.6 6.5 6.4 6.3 6.2 6.2 6.4 6.5 6.5 6.4 6.3 6.2 6.2 6.4 6.5 6.5 6.4 6.3 6.2 6.2 6.4 6.3 8.1 6.2 6.2 6.2 6.4 6.3 8.1 6.2 6.2 6.4 6.3 8.1 6.2 6.2 6.5 6.4 6.6 6.0 6.5 6.4 6.6 <	A.3.3 Investments (SCBs)	4.8	4.6	4.4	4.1	3.7	3.5	3.5	3.4	3.4	3.3	4.0
B. CPI (Base: 2012 = 100) All Commodities 2.3 2.2 2.1 2.0 1.0 1.8 1.7 1.7 1.7 2.0 B.1 CPI - Food and beverages 1.0 0.9 0.8 0.7 0.7 0.7 0.6 0.6 0.7 B.1 CPI - Cereals and products 1.0 0.9 0.8 0.7 0.7 0.6 0.6 0.7 B.1 CPI - Cereals and products 0.9 0.8 0.7 0.5 6.2 5.9 5.0 5.1 5.1 <t< td=""><td>Price Indices [CPI: 21 series and WPI: 9 series]</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Price Indices [CPI: 21 series and WPI: 9 series]											
B.1 CPI- Food and beverages 42 4.2 4.1 4.0 3.9 3.8 3.6 3.6 3.7 3.8 B.1 J. CPI - Keart and fish 1.0 0.9 0.8 0.7 0.7 0.7 0.6 0.6 B.1.2 CPI - Meat and fish 3.1 3.1 3.2 3.2 3.2 3.3 3.3 3.1 B.1.3 CPI - Egg 8.0 7.8 7.5 7.0 6.5 6.2 5.9 5.9 5.9 6.9 B.1.4 CPI - Water and fish 6.5 6.5 6.4 6.3 6.2 6.2 2.4 4.4 0.3 0.6 6.5 6.3 6.4 6.3 6.2 6.2 6.4 6.5 6.3 6.1 6.5 6.3 6.1 6.5 6.3 6.1 6.5 6.3 6.1 6.5 6.3 6.1 6.5 6.3 6.1 6.6 6.9 6.7 6.5 6.1 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	B. CPI (Base: 2012 = 100) All Commodities		2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.7	1.7	2.0
B.1.1 CPI - Cereals and products 1.0 0.9 0.8 0.7 0.7 0.7 0.6 0.6 0.7 B.1.2 CPI - Meat and fish 3.1 3.2 3.2 3.2 3.2 3.2 3.3 3.3 3.1 B.1.3 CPI - Egg 8.0 7.8 7.5 7.0 6.5 6.2 5.9 5.9 5.9 B.1.4 CPI - Milk and products 0.9 0.8 0.8 0.7 0.6 0.5 0.4 0.4 0.3 0.6 B.1.5 CPI - Fruitis 6.5 6.4 6.3 6.2 6.2 6.2 6.4 6.5 6.5 B.1.6 CPI - Potato 38.0 37.0 37.4 36.9 36.3 33.1 31.8 30.8 37.4 37.0 38.0 39.1 40.4 B.1.6 CPI - Potato 63.1 63.8 65.3 66.1 66.3 66.6 66.9 67.5 65.6 B.1.7 CPI - Potato 3.0 3.1 3.2 3.4 3.3 3.2 2.5 3.2 8.1 8.7 1.5 1.2 1.1 1.1	B.1 CPI - Food and beverages		4.2	4.2	4.1	4.0	3.9	3.8	3.6	3.6	3.7	3.8
B.1.2 CPI - Meat and fish 3.1 3.1 3.2 3.2 3.2 3.2 3.3 3.3 3.1 B.1.3 CPI - Egg 8.0 7.8 7.5 7.0 6.5 6.2 5.9 5.9 6.9 B.1.4 CPI - Mulk and products 0.9 0.8 8.0 7.0 6.5 6.2 6.2 6.4 6.5 6.3 B.1.4 CPI - Mulk and products 245 245 241 23.8 22.8 22.1 1.3 21.7 22.3 23.0 B.1.6.1 CPI - Potato 38.0 37.9 37.4 36.9 36.3 35.1 31.8 30.8 35.6 B.1.6.2 CPI - Donion 450.4 43.3 43.2 38.8 37.4 33.2 2.5 3.2 B.1.6 2 CPI - Donion 450.4 3.1 3.1 3.1 3.1 30.8 3.1 3.2 2.5 3.2 B.1.6 2 CPI - Nonaicoholic beverages 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	B.1 .1 CPI - Cereals and products		1.0	0.9	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.7
B.1.3 CPI - Egg 8.0 7.8 7.5 7.0 6.5 6.2 5.9 5.9 6.9 B.1.4 CPI - Milk and products 0.9 0.8 0.8 0.7 0.6 0.5 0.4 0.4 0.3 0.6 B.1.5 CPI - Fruits 6.5 6.4 6.3 6.4 6.3 6.2 6.2 6.4 6.5 6.3 B.1.6 CPI - Vegetables 24.5 24.1 23.8 22.8 22.1 21.3 21.7 22.3 23.0 B.1.6.1 CPI - Potato 38.0 37.9 37.4 36.9 36.3 35.1 33.1 31.8 30.8 35.0 B.1.6.1 CPI - Potato 45.0 44.7 43.3 42.0 38.8 37.4 3.0 3.1 3.2 2.5 3.2 B.1.3 CPI - Fontace 3.0 0.3 <td>B.1 .2 CPI - Meat and fish</td> <td></td> <td>3.1</td> <td>3.1</td> <td>3.2</td> <td>3.2</td> <td>3.2</td> <td>3.2</td> <td>3.2</td> <td>3.3</td> <td>3.3</td> <td>3.1</td>	B.1 .2 CPI - Meat and fish		3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.1
B.1.4 CPI - Milk and products 0.9 0.8 0.8 0.7 0.6 0.5 0.4 0.4 0.3 0.6 B.1.5 CPI - Fruits 6.5 6.4 6.3 6.2 6.2 6.4 6.5 6.3 B.1.6 CPI - Vegetables 24.5 24.5 24.1 23.8 22.1 21.3 21.7 22.3 23.0 B.1.6.1 CPI - Fotato 38.0 37.9 37.4 36.9 35.6 35.1 31.1 31.8 30.8 35.6 B.1.6.2 CPI - Tomato 63.1 63.8 65.3 66.1 66.3 66.4 66.6 66.9 67.5 65.6 B.1.7 CPI - Pulses and products 1.8 1.7 1.5 1.2 1.1 1.1 1.1 1.0 0.8 1.3 B.1.9 CPI - Non-alcoholic beverages 0.3	B.1 .3 CPI - Egg		8.0	7.8	7.5	7.0	6.5	6.2	5.9	5.9	5.9	6.9
B.1.5 CPI - Fruits 6.5 6.5 6.4 6.3 6.2 6.2 6.4 6.5 6.3 B.1.6 CPI - Vegetables 24.5 24.5 24.1 23.8 22.1 21.3 21.7 22.3 23.0 B.1.6.1 CPI - Potato 38.0 37.9 37.4 36.9 36.3 35.1 33.1 31.8 30.8 35.0 B.1.6.2 CPI - Conton 64.50 64.7 43.3 42.0 38.8 37.4 37.0 37.4 37.0 38.0 39.1 40.4 B.1.6.2 CPI - Tomato 63.1 63.8 65.3 66.1 66.3 66.4 66.6 66.9 67.5 65.6 B.1.7 CPI - Pulses and products 3.0 3.1 3.2 3.4 3.3 3.2 2.5 3.2 B.1.9 CPI - Non-alcoholic beverages 0.3<	B.1 .4 CPI - Milk and products		0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.6
B1.6 CPI - Vegetables 24.5 24.5 24.1 23.8 22.8 22.1 21.3 21.7 22.3 23.0 B.1.6.1 CPI - Potato 38.0 37.9 37.4 36.9 36.3 35.1 33.1 31.8 30.8 35.6 B.1.6.2 CPI - Onion 45.0 44.7 43.3 42.0 38.8 37.4 37.0 38.0 39.1 40.4 B.1.6.2 CPI - Onion 63.1 63.8 65.3 66.1 66.6 66.9 67.5 65.6 B.1.7 CPI - Pulses and products 3.0 3.1 3.2 3.4 3.3 3.2 2.5 3.2 B.1.8 CPI - Spices 1.8 1.7 1.5 1.2 1.1 1.1 1.0 0.8 1.3 B.1.9 CPI - Non-alcoholic beverages 0.3 0.5 0.4	B.1 .5 CPI - Fruits		6.5	6.5	6.4	6.3	6.2	6.2	6.2	6.4	6.5	6.3
B1. 6.1 CPI - Potato 38.0 37.9 37.4 36.9 36.3 35.1 33.1 31.8 30.8 356 B1. 6.2 CPI - Onion 45.0 44.7 43.3 42.0 38.8 37.4 37.0 38.0 99.1 40.4 B.1. 6.3 CPI - Tomato 63.1 63.8 65.3 66.1 66.3 66.4 66.6 66.9 67.5 65.6 B.1. 7 CPI - Pulses and products 3.0 3.1 3.2 3.4 3.3 3.3 3.2 2.5 3.2 B.1. 8 CPI - Non-alcoholic beverages 0.3	B.1 .6 CPI - Vegetables		24.5	24.5	24.1	23.8	22.8	22.1	21.3	21.7	22.3	23.0
B1.6.2 CPI - Onion 45.0 44.7 43.3 42.0 38.8 37.4 37.0 38.0 39.1 40.4 B1.6.3 CPI - Tomato 63.1 63.8 65.3 66.1 66.3 66.4 66.6 66.9 67.5 65.6 B.1.7 CPI - Pulses and products 3.0 3.1 32.2 3.4 3.5 3.4 3.3 32.2 2.5 3.2 B.1.8 CPI - Spices 1.8 1.7 1.5 1.2 1.1 1.1 1.1 1.0 0.8 1.3 B.1.9 CPI - Prepared meals, snacks, sweets etc. 0.8 0.8 0.7 0.6 0.5 0.4 0.4 0.4 0.4 0.6 B.2 CPI - Clothing and footwear 0.7 0.7 0.6 0.5 0.4 0.3<	B.1 .6.1 CPI - Potato		38.0	37.9	37.4	36.9	36.3	35.1	33.1	31.8	30.8	35.6
B.1.6.3 CPI - Tomato 63.1 63.8 65.3 66.1 66.4 66.6 66.9 67.5 65.6 B.1.7 CPI - Pulses and products 3.0 3.1 3.2 3.4 3.5 3.4 3.3 3.2 2.5 3.2 B.1.8 CPI - Spices 1.8 1.7 1.5 1.2 1.1 1.1 1.1 0.0 8 1.3 B.1.9 CPI - Non-alcoholic beverages 0.3 <	B.1 .6.2 CPI - Onion		45.0	44.7	43.3	42.0	38.8	37.4	37.0	38.0	39.1	40.4
B.1.7 CPI - Pulses and products 3.0 3.1 3.2 3.4 3.3 3.2 2.5 3.2 B.1.8 CPI - Spices 1.8 1.7 1.5 1.2 1.1 1.1 1.1 1.0 0.8 1.3 B.1.9 CPI - Non-alcoholic beverages 0.3 0.	B.1 .6.3 CPI - Tomato		63.1	63.8	65.3	66.1	66.3	66.4	66.6	66.9	67.5	65.6
B.1.8 CPI - Spices 1.8 1.7 1.5 1.2 1.1 1.1 1.1 1.0 0.8 1.3 B.1.9 CPI - Non-alcoholic beverages 0.3	B.1 .7 CPI - Pulses and products		3.0	3.1	3.2	3.4	3.5	3.4	3.3	3.2	2.5	3.2
B.1.9 CPI - Non-alcoholic beverages 0.3 <td>B.1 .8 CPI - Spices</td> <td></td> <td>1.8</td> <td>1.7</td> <td>1.5</td> <td>1.2</td> <td>1.1</td> <td>1.1</td> <td>1.1</td> <td>1.0</td> <td>0.8</td> <td>1.3</td>	B.1 .8 CPI - Spices		1.8	1.7	1.5	1.2	1.1	1.1	1.1	1.0	0.8	1.3
B.1.10 CPI - Prepared meals, snacks, sweets etc. 0.8 0.8 0.7 0.6 0.5 0.4 0.4 0.4 0.4 0.4 0.6 B.2 CPI - Clothing and footwear 0.7 0.7 0.6 0.5 0.5 0.4 0.3 0.3 0.3 0.5 B.3 CPI - Housing 1.4 1.3 1.2 1.1 1.1 1.2 1.2 1.2 1.3 1.2 B.4 CPI - Miscellaneous 0.8 0.8 0.7 0.6 0.5 0.4 0.3 0.3 0.3 0.6 C.1 Consumer Price Index for Industrial Workers (Base: 2001 = 100) 2.4 2.3 2.3 2.3 2.4 2.5 2.5 2.4 2.4 2.3 2.2 C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100) 2.1 2.1 2.2 2.1 2.0 2.0 1.8 1.7 1.6 2.0 D. WPI (Base: 2011-12=100) All Commodities 1.1 1.0 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.7 D.1 WPI - PRIMARY ARTICLES 1.4 1.3 1.5 1.6 </td <td>B.1 .9 CPI - Non-alcoholic beverages</td> <td></td> <td>0.3</td> <td>0.3</td> <td>0.3</td> <td>0.3</td> <td>0.3</td> <td>0.3</td> <td>0.3</td> <td>0.3</td> <td>0.2</td> <td>0.3</td>	B.1 .9 CPI - Non-alcoholic beverages		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3
B.2 CPI - Clothing and footwear 0.7 0.7 0.6 0.5 0.4 0.3 0.3 0.3 0.5 B.3 CPI - Housing 1.4 1.3 1.2 1.1 1.1 1.2 1.2 1.2 1.3 1.2 B.4 CPI - Miscellaneous 0.8 0.8 0.7 0.6 0.5 0.4 0.3 0.3 0.3 0.3 0.5 B.4 CPI - Miscellaneous 0.8 0.8 0.7 0.6 0.5 0.4 0.3 0.3 0.3 0.3 0.6 C.1 Consumer Price Index for Industrial Workers (Base: 2001=100) 2.4 2.3 2.3 2.3 2.4 2.5 2.5 2.4 2.4 2.3 2.2 C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100) 2.1 2.1 2.2 2.1 2.1 2.0 2.0 1.8 1.7 1.6 2.0 D. WPI (Base: 2011-12=100) All Commodities 1.1 1.0 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.7 D.1 WPI - Food Articles 3.6 3.9 4.3 4.8 <	B.1 .10 CPI - Prepared meals, snacks, sweets etc.		0.8	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.6
B3 CPI - Housing 1.4 1.3 1.2 1.1 1.1 1.2 1.2 1.2 1.3 1.2 B.4 CPI - Miscellaneous 0.8 0.8 0.7 0.6 0.5 0.4 0.3 0.3 0.3 0.6 C.1 Consumer Price Index for Industrial Workers (Base: 2001=100) 2.4 2.3 2.3 2.3 2.4 2.5 2.5 2.4 2.3 2.2 C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100) 2.1 2.1 2.2 2.1 2.1 2.1 2.0 1.9 1.7 1.6 2.0 C.3 Consumer Price Index for Rural Labourers (Base: 1986-87=100) 2.1 2.1 2.2 2.1 2.0 2.0 2.0 1.8 1.7 1.6 2.0 D. WPI (Base: 201-12=100) All Commodities 1.1 1.0 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.8 0.7 D.1 WPI - PRIMARY ARTICLES 1.4 1.3 1.5 1.6 1.7 1.6 1.5 1.4 1.4 1.3 D.1 WPI - Food Articles 3.6 3.9 4	B.2 CPI - Clothing and footwear		0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.5
B.4 CPI - Miscellaneous 0.8 0.8 0.7 0.6 0.5 0.4 0.3 0.3 0.3 0.6 C.1 Consumer Price Index for Industrial Workers (Base: 2001=100) 2.4 2.3 2.3 2.4 2.5 2.5 2.4 2.4 2.3 2.2 C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100) 2.1 2.1 2.2 2.1 2.1 2.1 2.0 1.9 1.7 1.6 2.0 C.3 Consumer Price Index for Rural Labourers (Base: 1986-87=100) 2.1 2.1 2.2 2.1 2.0 2.0 1.8 1.7 1.6 2.0 D. WPI (Base: 2011-12=100) All Commodities 1.1 1.0 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.7 D. WPI (Base: 2011-12=100) All Commodities 1.4 1.3 1.5 1.6 1.7 1.6 1.4 1.4 1.3 D.1 WPI - PRIMARY ARTICLES 1.4 1.3 1.5 1.6 1.7 1.6 1.4 1.4 1.3 D.1.1 WPI - Food Articles 3.6 3.9 4.3 4.8 5.1	B.3 CPI - Housing		1.4	1.3	1.2	1.1	1.1	1.2	1.2	1.2	1.3	1.2
C.1 Consumer Price Index for Industrial Workers (Base: 2001=100) 2.4 2.3 2.3 2.4 2.5 2.4 2.4 2.3 2.2 C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100) 2.1 2.1 2.1 2.2 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.0 1.9 1.7 1.6 2.0 C.3 Consumer Price Index for Rural Labourers (Base: 1986-87=100) 2.1 2.1 2.2 2.1 2.0 2.0 1.8 1.7 1.6 2.0 D. WPI (Base: 2011-12=100) All Commodities 1.1 1.0 1.0 0.9 0.8 0.7 0.7 0.8 0.8 0.8 0.7 D.1 WPI - PRIMARY ARTICLES 1.4 1.3 1.5 1.6 1.7 1.6 1.4 1.4 1.3 D.1 WPI - Food Articles 3.6 3.9 4.3 4.8 5.1 5.1 4.9 4.6 4.4 4.5 4.4 D.2 WPI - FOOD Articles 5.2 5.2 5.2 5.3 5.6	B.4 CPI - Miscellaneous		0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.6
(Base: 2001=100) 2.4 2.5 2.5 2.4 2.5 2.4 2.5 2.4 2.5 2.4 2.5 2.4 2.5 2.4 2.5 2.4 2.5 2.5 2.4 2.5 2.5 2.4 2.5 2.5 2.4 2.5 2.5 2.4 2.5 2.5 2.4 2.5 2.5 2.4 2.5 2.5 2.4 2.5 5.5 5.6 5.6 5.5 5.6 5.6 5.3 5.6 5.6 5.5 5.6 5.6 5.3 5.4 4.9 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.5 <td>C.1 Consumer Price Index for Industrial Workers</td> <td>24</td> <td>23</td> <td>23</td> <td>23</td> <td>24</td> <td>25</td> <td>2.5</td> <td>24</td> <td>24</td> <td>23</td> <td>2.2</td>	C.1 Consumer Price Index for Industrial Workers	24	23	23	23	24	25	2.5	24	24	23	2.2
C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100)2.12.12.22.12.12.12.12.01.91.71.62.0C.3 Consumer Price Index for Rural Labourers (Base: 1986-87=100)2.12.12.22.12.02.02.01.81.71.62.0D. WPI (Base: 2011-12=100) All Commodities1.11.01.00.90.80.70.70.80.80.80.7D.1 WPI - PRIMARY ARTICLES1.41.31.51.61.71.61.51.41.41.41.3D.1.1 WPI - Food Articles3.63.94.34.85.15.14.94.64.44.54.4D.2 WPI - FUEL & POWER17.317.318.219.821.522.022.222.723.523.319.4D.3 WPI - MANUFACTURED PRODUCTS5.25.25.25.35.65.65.55.65.65.3D.3.1 WPI - Manufacture of Food Products2.42.93.23.12.92.41.91.51.21.12.3D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals Products4.54.44.54.85.25.35.45.35.35.34.9D.3.4 WPI - Manufacture of Machiner & Machine Tools6.36.26.56.87.37.26.96.15.44.86.3	(Base: 2001=100)	2.7	2.)	2.)	2.)	2.7	2.)	2.)	2.7	2.7	2.)	2.2
C.3 Consumer Price Index for Rural Labourers (Base: 1986-87=100)2.12.12.22.12.02.02.01.81.71.62.0D. WPI (Base: 2011-12=100) All Commodities1.11.00.90.80.70.70.80.80.80.7D.1 WPI - PRIMARY ARTICLES1.41.31.51.61.71.61.51.41.41.3D.1.1 WPI - Food Articles3.63.94.34.85.15.14.94.64.44.54.4D.2 WPI - FUEL & POWER17.317.318.219.821.522.022.222.723.523.319.4D.3 WPI - MANUFACTURED PRODUCTS5.25.25.25.35.65.65.55.65.65.3D.3.1 WPI - Manufacture of Chemicals & Chemical Products2.42.93.23.12.92.41.91.51.21.12.3D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals Products4.54.44.54.85.25.35.45.35.35.34.9D.3.4 WPI - Manufacture of Machinery & Machine Tools6.36.26.56.87.37.26.96.15.44.86.3	C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100)	2.1	2.1	2.2	2.1	2.1	2.1	2.0	1.9	1.7	1.6	2.0
D. WPI (Base: 2011-12=100) All Commodities 1.1 1.0 1.0 0.9 0.8 0.7 0.8 0.8 0.8 0.7 D.1 WPI - PRIMARY ARTICLES 1.4 1.3 1.5 1.6 1.7 1.6 1.5 1.4 1.4 1.3 D.1 WPI - PRIMARY ARTICLES 3.6 3.9 4.3 4.8 5.1 5.1 4.9 4.6 4.4 4.5 4.4 D.2 WPI - FUEL & POWER 17.3 17.3 18.2 19.8 21.5 22.0 22.2 22.7 23.5 23.3 19.4 D.3 WPI - MANUFACTURED PRODUCTS 5.2 5.2 5.2 5.3 5.6 5.5 5.5 5.6 5.6 5.3 D.3.1 WPI - Manufacture of Food Products 2.2 2.2 2.3 2.4 2.4 2.2 2.2 2.1 2.0 1.9 2.2 D.3.2 WPI - Manufacture of Chemicals & Chemical Products 2.4 2.9 3.2 3.1 2.9 2.4 1.9 1.5 1.2 1.1 2.3 D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals Products 4.5 4.4	C.3 Consumer Price Index for Rural Labourers (Base: 1986-87=100)	2.1	2.1	2.2	2.1	2.0	2.0	2.0	1.8	1.7	1.6	2.0
D.1 WPI - PRIMARY ARTICLES1.41.31.51.61.71.61.51.41.41.3D.1.1 WPI - Food Articles3.63.94.34.85.15.14.94.64.44.54.4D.2 WPI - FUEL & POWER17.317.318.219.821.522.022.222.723.523.319.4D.3 WPI - MANUFACTURED PRODUCTS5.25.25.25.25.35.65.65.55.65.65.3D.3.1 WPI - Manufacture of Food Products2.22.22.32.42.42.22.22.12.01.92.2D.3.2 WPI - Manufacture of Chemicals & Chemical Products2.42.93.23.12.92.41.91.51.21.12.3D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals Products4.54.44.54.85.25.35.45.35.35.34.9D.3.4 WPI - Manufacture of Machinery & Machine Tools6.36.26.56.87.37.26.96.15.44.86.3	D. WPI (Base: 2011-12=100) All Commodities	1.1	1.0	1.0	0.9	0.8	0.7	0.7	0.8	0.8	0.8	0.7
D.1.1 WPI - Food Articles3.63.94.34.85.15.14.94.64.44.54.4D.2 WPI - FUEL & POWER17.317.318.219.821.522.022.222.723.523.319.4D.3 WPI - MANUFACTURED PRODUCTS5.25.25.25.25.35.65.65.55.55.65.65.3D.3.1 WPI - Manufacture of Food Products2.22.22.32.42.42.22.22.12.01.92.2D.3.2 WPI - Manufacture of Chemicals & Chemical Products2.42.93.23.12.92.41.91.51.21.12.3D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals4.54.44.54.85.25.35.45.35.35.34.9D.3.4 WPI - Manufacture of Machinery & Machine Tools6.36.26.56.87.37.26.96.15.44.86.3	D.1 WPI - PRIMARY ARTICLES	1.4	1.3	1.5	1.6	1.7	1.6	1.5	1.4	1.4	1.4	1.3
D.2 WPI - FUEL & POWER17.317.317.318.219.821.522.022.222.723.523.319.4D.3 WPI - MANUFACTURED PRODUCTS5.25.25.25.25.35.65.65.55.55.65.65.3D.3.1 WPI - Manufacture of Food Products2.22.22.32.42.42.22.22.12.01.92.2D.3.2 WPI - Manufacture of Chemicals & Chemical Products2.42.93.23.12.92.41.91.51.21.12.3D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals4.54.44.54.85.25.35.45.35.35.34.9D.3.4 WPI - Manufacture of Machinery & Machine Tools6.36.26.56.87.37.26.96.15.44.86.3	D.1.1 WPI - Food Articles	3.6	3.9	4.3	4.8	5.1	5.1	4.9	4.6	4.4	4.5	4.4
D.3 WPI - MANUFACTURED PRODUCTS 5.2 5.2 5.2 5.2 5.3 5.6 5.5 5.5 5.6 5.6 5.3 D.3.1 WPI - Manufacture of Food Products 2.2 2.2 2.3 2.4 2.4 2.2 2.2 2.1 2.0 1.9 2.2 D.3.2 WPI - Manufacture of Chemicals & Chemical Products 2.4 2.9 3.2 3.1 2.9 2.4 1.9 1.5 1.2 1.1 2.3 D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals 4.5 4.4 4.5 4.8 5.2 5.3 5.4 5.3 5.3 5.3 4.9 D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals 4.5 4.4 4.5 4.8 5.2 5.3 5.4 5.3 5.3 5.3 4.9 D.3.4 WPI - Manufacture of Machinery & Machine Tools 6.3 6.2 6.5 6.8 7.3 7.2 6.9 6.1 5.4 4.8 6.3	D.2 WPI - FUEL & POWER	17.3	17.3	18.2	19.8	21.5	22.0	22.2	22.7	23.5	23.3	19.4
D.3.1 WPI - Manufacture of Food Products 2.2 2.2 2.3 2.4 2.4 2.2 2.2 2.1 2.0 1.9 2.2 D.3.2 WPI - Manufacture of Chemicals & Chemical Products 2.4 2.9 3.2 3.1 2.9 2.4 1.9 1.5 1.2 1.1 2.3 D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals 4.5 4.4 4.5 4.8 5.2 5.3 5.4 5.3 5.3 5.3 4.9 D.3.4 WPI - Manufacture of Machinery & Machine Tools 6.3 6.2 6.5 6.8 7.3 7.2 6.9 6.1 5.4 4.8 6.3	D.3 WPI - MANUFACTURED PRODUCTS	5.2	5.2	5.2	5.3	5.6	5.6	5.5	5.5	5.6	5.6	5.3
D.3.2 WPI - Manufacture of Chemicals & Chemical Products 2.4 2.9 3.2 3.1 2.9 2.4 1.9 1.5 1.2 1.1 2.3 D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals 4.5 4.4 4.5 4.8 5.2 5.3 5.4 5.3 5.3 5.3 4.9 Products 0.3.4 WPI - Manufacture of Machinery & Machine Tools 6.3 6.2 6.5 6.8 7.3 7.2 6.9 6.1 5.4 4.8 6.3	D.3.1 WPI - Manufacture of Food Products	2.2	2.2	2.3	2.4	2.4	2.2	2.2	2.1	2.0	1.9	2.2
D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals 4.5 4.4 4.5 4.8 5.2 5.3 5.4 5.3 5.3 4.9 D.3.4 WPI - Manufacture of Machinery & Machine Tools 6.3 6.2 6.5 6.8 7.3 7.2 6.9 6.1 5.4 4.8 6.3	D.3.2 WPI - Manufacture of Chemicals & Chemical Products	2.4	2.9	3.2	3.1	2.9	2.4	1.9	1.5	1.2	1.1	2.3
D.3.4 WPI - Manufacture of Machinery & Machine Tools 6.3 6.2 6.5 6.8 7.3 7.2 6.9 6.1 5.4 4.8 6.3	D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals Products	4.5	4.4	4.5	4.8	5.2	5.3	5.4	5.3	5.3	5.3	4.9
	D.3.4 WPI - Manufacture of Machinerv & Machine Tools	6.3	6.2	6.5	6.8	7.3	7.2	6.9	6.1	5.4	4.8	6.3

Table 4: Range (Difference Between Peak and Trough) of Seasonal Factors (Contd.)

Series \ Year	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	Range
											of
											Average
1	2	3	4	5	6	7	8	0	10	11	12
Index of Industrial Production (23 series)			,	,	<u> </u>	,			10		
E. IIP (Base 2011-12 = 100) General Index	14.4	14.0	13.4	12.7	12.7	12.9	13.0	13.4	13.5	13.5	13.0
E.1.1 IIP - Primary goods			13.5	13.7	13.8	13.9	14.0	14.1	14.3	14.5	13.9
E.1.2 IIP - Capital goods			39.2	38.4	36.8	35.2	33.2	32.0	31.0	30.8	35.1
E.1.3 IIP - Intermediate goods			10.2	10.2	10.2	10.1	10.2	10.4	10.7	10.8	10.1
E.1.4 IIP - Infrastructure/ construction goods			11.6	12.0	12.3	12.7	13.1	13.6	13.8	14.2	12.7
E.1.5 IIP - Consumer goods			12.0	11.7	11.2	10.7	10.1	9.9	10.1	10.6	10.8
E.1.5.1 IIP - Consumer durables			13.9	13.8	13.3	12.5	11.3	10.3	10.0	9.6	11.9
E.1.5.2 IIP - Consumer non-durables			15.4	15.1	14.3	14.0	13.7	13.9	14.6	15.3	13.8
E.2.1 IIP - Mining	28.0	29.0	29.7	30.5	31.2	32.1	32.9	34.2	35.1	35.6	30.8
E.2.2 IIP - Manufacturing	12.6	12.2	12.0	12.3	12.4	12.6	12.7	13.1	13.2	13.4	12.5
E.2.2.1 IIP - Manufacture of food products			36.3	36.3	35.9	35.9	36.6	37.6	38.5	39.3	36.7
E.2.2.2 IIP - Manufacture of beverages			55.3	54.4	51.3	46.0	39.7	35.3	32.9	33.4	44.5
E.2.2.3 IIP - Manufacture of textiles			8.9	8.5	7.5	6.4	5.2	5.2	5.5	5.7	6.4
E.2.2.4 IIP - Manufacture of chemicals and chemical			111	10.8	10.6	10.0	11.7	123	12.6	12.7	10.0
products			11,1	10.0	10.0	10.9	11./	12.9	12.0	12.7	10.9
E.2.2.5 IIP - Manufacture of motor vehicles, trailers and			13.5	13.9	14.6	15.6	16.2	16.6	16.5	16.4	15.3
semi-trailers											
E.2.3 IIP - Electricity	11.3	10./	11.2	12.0	13.1	14.2	15.5	16./	17.9	18.4	13.0
E.3 Cement Production	23.3	23.9	23.6	23.3	22.1	21.4	20.9	21.1	21.5	22.0	22.4
E.4 Steel Production	10.3	10.0	10.1	10.1	9.8	9.6	10.0	10.6	11.2	11.0	10.0
E.5 Coal Production	54.0	55.2	55.1	55.0	55.4	50.0	59.1	02.4	05.3	0/.1	50.8
E.o Crude Oil Production	10.2	10.4	10.4	10.4	10.4	10.4	10.5	10.6	10.7	10.8	10.4
E./ Petroleum Refinery Production	9.3	9.9	10.4	10.0	10.2	9./	9.5	9.5	9.1	8.8	9.5
E.8 Fertiliser Production	20.7	27.0	27.4	27.5	20.4	24.0	22.8	21.9	21.4	21.9	25.1
E.9 Natural Gas Production	11,1	10.9	10.7	10.9	10.9	11.0	10.9	10.0	10.5	10.7	10.7
E1 Production of Commercial Motor Vahielos	28.6	7 90	25.6	24.0	24.1	75.8	25.0	26.2	26.1	27.5	24.7
F.1 Froduction of Commercial Motor venicles	15.0	15.0	23.0	14.0	14.1	15.3	23.9	15.7	15.5	15.4	15.4
F3 Railway Freight Traffic	20.6	20.6	10.3	18.8	18.3	19.9	10.1	20.3	21.3	22.0	10.7
F4 Sales of Commercial Motor Vehicles	41.8	41 7	40.7	41.3	41.0	43.2	44.7	46.0	48.5	40.0	43.3
F5 Passenger flown (Km) - Domestic	25.8	25.8	24.1	22.1	10 7	173	15.1	13.6	12.7	12.4	20.1
F6 Passenger flown (Km) - International	15.2	16.1	16.0	18.1	18.8	10.5	20.0	20.8	21.3	22.1	17.0
Merchandise Trade (3 series)	17.2	10.1	10.7	10.1	10.0	17.7	20.0	20.0	21.9		17.7
G.1 Exports	21.9	21.9	20.9	19.6	17.8	16.4	15.6	16.5	17.3	17.6	18.8
G.2 Imports	14.2	12.8	11.7	11.4	12.4	12.7	12.3	11.4	10.8	10.7	11.8
G.3 Non-Oil Non-Gold Imports	12.7	11.6	12.1	12.3	12.7	13.3	13.9	14.3	14.6	14.6	12.8
Alternate modes of Payment (4 series)					1						
RTGS	26.9	34.8	39.9	42.6	44.5	44.5	42.5	40.2	38.4	36.9	36.8
Paper Clearing	25.2	25.7	25.3	24.3	22.9	21.9	21.3	21.3	21.5	21.8	23.4
REC	23.3	29.1	33.7	35.9	36.5	36.1	34.8	33.2	31.7	30.6	31.1
Cards	14.3	14.0	13.3	12.6	12.5	12.6	12.8	13.0	12.9	12.9	13.2

Table 4: Range (Difference Between Peak and Tr	rough) of Seasonal Factors (Concld.)
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Note:

1. Seasonal adjustment for these series is based on 10 years' data depending on availability. Guidelines of both the Office of National Statistics (ONS), UK, and the US Census Bureau, however, suggest using more than ten years' data for estimating stable monthly seasonal factors.

2. Average seasonal factor range is the range of average seasonal factors for last ten years; range is calculated as the difference between maximum and minimum of monthly seasonal factors.

Series	Based o	on SF of 20	014-15 to 2	2018-19	Ba	ased on SI	7 of 2019-2	9-20		
	Peak Month	Peak Value	Trough Month	Trough Value	Peak Month	Peak Value	Trough Month	Trough Value		
Monetary and Banking Indicators(14 series)										
A.1.1 Broad Money (M3)	Apr	101.1	Dec	99.2	Apr	101.1	Dec	99.0		
A.1.1.1 Net Bank Credit to Government	Jul	101.7	Mar	98.0	Aug	101.7	Mar	97.7		
A.1.1.2 Bank Credit to Commercial Sector	Mar	102.0	Aug	99.1	Mar	102.2	Aug	99.0		
A.1.2 Narrow Money (M1)	Mar	104.3	Jan	98.3	Mar	105.8	Dec	97.6		
A.1.3 Reserve Money (RM)	Mar	103.6	Oct	98.4	Mar	103.1	Nov	98.4		
A.1.3.1 Currency in Circulation	May	102.8	Sep	98.0	May	102.8	Sep	97.8		
A.2.1 Aggregate Deposits (SCBs)	Mar	101.0	Feb	99.3	Mar	101.2	Feb	99.3		
A.2.1.1 Demand Deposits (SCBs)	Mar	108.3	Jan	96.9	Mar	111.4	Jan	96.3		
A.2.1.2 Time Deposits (SCBs)	Apr	100.5	Feb	99.6	Apr	100.3	Dec	99.6		
A.3.1 Cash in Hand and Balances with RBI (SCBs)	Dec	102.3	Jan	97.6	Mar	104.1	Jul	98.0		
A.3.2 Bank Credit (SCBs)	Mar	102.1	Aug	99.1	Mar	102.2	Aug	99.0		
A.3.2.1 Loans, Cash Credits and Overdrafts (SCBs)	Mar	101.9	Aug	99.0	Mar	102.3	Aug	98.8		
A.3.2.2 Non-Food Credit (SCBs)	Mar	102.4	Aug	99.0	Mar	102.8	Aug	98.9		
A.3.3 Investments (SCBs)	Aug	101.2	Mar	97.7	Aug	101.3	Mar	98.0		
Price Indices [CPI: 21 series and WPI: 9 series]										
B. CPI (Base: 2012 = 100) All Commodities	Oct	100.9	Mar	99.1	Nov	100.8	Mar	99.1		
B.1 CPI - Food and beverages	Aug	101.7	Mar	98.0	Nov	101.7	Mar	98.0		
B.1 .1 CPI - Cereals and products	Nov	100.3	May	99.6	Nov	100.3	May	99.7		
B.1 .2 CPI - Meat and fish	Jul	102.0	Nov	98.9	Jun	102.1	Oct	98.8		
B.1 .3 CPI - Egg	Jan	103.3	May	97.0	Jan	103.1	May	97.1		
B.1 .4 CPI - Milk and products	Nov	100.2	Apr	99.7	Oct	100.1	Apr	99.8		
B.1 .5 CPI - Fruits	Jul	103.0	Feb	96.7	Jul	102.9	Jan	96.4		
B.1 .6 CPI - Vegetables	Oct	110.7	Mar	88.5	Nov	111.3	Mar	89.0		
B.1 .6.1 CPI - Potato	Nov	115.2	Feb	80.5	Nov	113.6	Feb	82.7		
B.1 .6.2 CPI - Onion	Nov	119.5	May	81.3	Nov	122.9	May	83.8		
B.1 .6.3 CPI - Tomato	Jul	139.4	Feb	73.0	Jul	140.7	Feb	73.2		
B.1 .7 CPI - Pulses and products	Nov	101.7	Apr	98.4	Sep	101.0	Apr	98.6		
B.1 .8 CPI - Spices	Dec	100.5	Apr	99.4	Dec	100.5	Apr	99.6		
B.1 .9 CPI - Non-alcoholic beverages	Sep	100.1	Mar	99.8	Aug	100.1	Mar	99.9		
B.1 .10 CPI - Prepared meals, snacks, sweets etc.	Nov	100.2	May	99.8	Nov	100.2	Jun	99.9		
B.2 CPI - Clothing and footwear	Dec	100.2	May	99.8	Dec	100.2	Mar	99.9		
B.3 CPI - Housing	Nov	100.4	Jun	99.2	Nov	100.4	Jun	99.1		
B.4 CPI - Miscellaneous	Sep	100.2	Apr	99.8	Nov	100.2	Jun	99.8		
C.1 Consumer Price Index for Industrial Workers (Base: 2001=100)	Aug	101.2	Mar	98.8	Aug	101.2	Mar	98.9		
C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100)	Nov	100.9	Apr	98.9	Dec	100.7	Apr	99.1		
C.3 Consumer Price Index for Rural Labourers (Base: 1986-87=100)	Nov	100.9	Apr	98.9	Dec	100.7	Apr	99.1		
D. WPI (Base: 2011-12=100) All Commodities	Aug	100.3	Mar	99.7	Aug	100.4	Feb	99.6		
D.1 WPI - PRIMARY ARTICLES	Oct	100.6	Mar	99.2	Nov	100.7	Mar	99.3		
D.1.1 WPI - Food Articles	Aug	102.1	Mar	97.4	Nov	101.9	Mar	97.4		
D.2 WPI - FUEL & POWER	Oct	109.2	Mar	87.6	Nov	110.6	Mar	87.3		
D.3 WPI - MANUFACTURED PRODUCTS	Oct	102.2	Mar	96.8	Nov	102.5	Mar	96.9		
D.3.1 WPI - Manufacture of Food Products	Nov	100.9	Apr	98.8	Nov	100.8	Apr	98.9		
D.3.2 WPI - Manufacture of Chemicals & Chemical Products	Sep	101.0	Mar	99.0	Oct	100.6	Mar	99.5		
D.3.3 WPI - Manufacture of Basic Metals Alloys & Metals Products	Jan	102.7	Jun	97.4	Feb	102.6	Jun	97.4		
D.3.4 WPI - Manufacture of Machinery & Machine Tools	Oct	103.4	Apr	97.1	Nov	102.4	Apr	97.6		

Table 5: Change in Seasonal Peaks and Troughs in 2019-20 vis-à-vis previous 5-years(2014-15 to 2018-19) (Contd.)

Series	Based o	n SF of 20)14-15 to 2	2018-19	Ba	ased on SI	F of 2019-2	20
	Peak Month	Peak Value	Trough Month	Trough Value	Peak Month	Peak Value	Trough Month	Trough Value
Industrial Production (23 series)								
E. IIP (Base 2011-12 = A51:A72 100) General Index	Mar	109.3	Apr	96.2	Mar	109.7	Apr	96.2
E.1.1 IIP - Primary goods	Mar	108.9	Sep	94.9	Mar	109.3	Sep	94.8
E.1.2 IIP - Capital goods	Mar	123.1	Apr	89.5	Mar	121.5	Apr	90.7
E.1.3 IIP - Intermediate goods	Mar	107.8	Feb	97.7	Mar	108.3	Apr	97.5
E.1.4 IIP - Infrastructure/ construction goods	Mar	107.5	Nov	94.5	Mar	108.9	Sep	94.7
E.1.5 IIP - Consumer goods	Mar	105.7	Apr	95.4	Mar	105.5	Jun	94.9
E.1.5.1 IIP - Consumer durables	Oct	107.3	Apr	96.1	Oct	105.8	Feb	96.2
E.1.5.2 IIP - Consumer non-durables	Mar	108.1	Apr	94.4	Dec	107.9	Jun	92.7
E.2.1 IIP - Mining	Mar	121.0	Sep	88.2	Mar	121.8	Aug	86.2
E.2.2 IIP - Manufacturing	Mar	108.3	Apr	95.5	Mar	108.7	Apr	95.3
E.2.2.1 IIP - Manufacture of food products	Dec	122.5	Jun	85.6	Dec	124.0	Jun	84.7
E.2.2.2 IIP - Manufacture of beverages	May	127.7	Nov	87.0	May	122.3	Oct	88.9
E.2.2.3 IIP - Manufacture of textiles	Aug	101.9	Feb	96.4	Dec	102.8	Feb	97.1
E.2.2.4 IIP - Manufacture of chemicals and chemical products	Mar	105.4	Feb	93.9	Mar	107.0	Feb	94.4
E.2.2.5 IIP - Manufacture of motor vehicles, trailers and semi-trailers	Mar	108.5	Dec	92.6	Mar	108.9	Dec	92.5
E.2.3 IIP - Electricity	May	106.2	Feb	90.8	May	108.0	Feb	89.6
E.3 Cement Production	Mar	111.9	Aug	90.5	Mar	112.1	Aug	90.1
E.4 Steel Production	Mar	106.7	Nov	96.6	Mar	108.5	Sep	96.9
E.5 Coal Production	Mar	140.1	Aug	80.3	Mar	144.4	Aug	77.3
E.6 Crude Oil Production	Mar	102.7	Feb	92.2	Mar	103.0	Feb	92.1
E.7 Petroleum Refinery Production	Mar	104.4	Feb	94.9	Mar	103.6	Feb	94.8
E.8 Fertiliser Production	Oct	106.3	Apr	83.0	Dec	105.1	Apr	83.3
E.9 Natural Gas Production	Oct	102.7	Feb	92.0	Dec	103.2	Feb	92.6
Service Sector Indicators (6 series)								
F.1 Production of Commercial Motor Vehicles	Mar	116.5	Dec	90.9	Mar	118.5	Aug	91.0
F.2 Cargo handled at Major Ports	Mar	108.9	Sep	93.5	Mar	108.8	Sep	93.4
F.3 Railway Freight Traffic	Mar	113.3	Sep	93.8	Mar	114.7	Sep	92.7
F.4 Sales of Commercial Motor Vehicles	Mar	131.6	Apr	86.6	Mar	134.9	Apr	85.0
F.5 Passenger flown (Km) - Domestic	May	108.7	Sep	93.0	May	106.7	Sep	94.3
F.6 Passenger flown (Km) - International	Jan	112.6	Sep	92.6	Jan	114.4	Sep	92.4
Merchandise Trade (3 series)								
G.1 Exports	Mar	112.8	Nov	96.4	Mar	113.4	Jul	95.8
G.2 Imports	Mar	104.8	Feb	92.9	Mar	103.7	Feb	92.9
G.3 Non-Oil Non-Gold Imports	Dec	104.9	Feb	91.1	Dec	104.7	Feb	90.1
Alternate modes of Payment (4 series)								
H.1 RTGS	Mar	129.9	Feb	87.9	Mar	125.4	Feb	88.4
H.2 Paper Clearing	Mar	115.4	Sep	93.6	Mar	115.0	Sep	93.3
H.3 REC	Mar	125.8	Nov	91.4	Mar	123.9	Nov	93.3
H.4 Cards	Oct	105.4	Feb	92.6	Oct	106.2	Feb	93.4

Table 5: Change in Seasonal Peaks and Troughs in 2019-20 vis-à-vis previous 5-years(2014-15 to 2018-19) (Concld.)

Table 6: Change in Seasona	l Variation in 2019-20	vis-à-vis previous	5-years (201	4-15 to 2018-19)
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Name of Variable	2019-20	Average Range*	Change	Name of Variable	2019-20	Average Range*	Change
1	2	3	4	5	6	7	8
Monetary and Banking Indicators (14 serties)			D.3.2 WPI - Manufacture of Chemicals &	1.1	2.0	-0.9	
A.1.1 Broad Money (M3)	2.1	2.0	0.2	Chemical Products			ļ
A.1.1.1 Net Bank Credit to Government	3.9	3.7	0.3	D.3.3 WPI - Manufacture of Basic Metals	5.3	5.3	0.0
A.1.1.2 Bank Credit to Commercial Sector	3.2	2.9	0.2	Alloys & Metals Products		(-	
A.1.2 Narrow Money (M1)	8.2	6.0	2.3	D.3.4 WPI - Manufacture of Machinery & Machine Tools	4.8	6.3	-1.5
A.1.3 Reserve Money (RM)	4.7	5.2	-0.5	Industrial Production (23 series)			
A.1.3.1 Currency in Circulation	4.9	4.7	0.2	$E_{\rm IIID} (Page 2011 12 = 100) (caparal Index)$	12.5	12.1	0.5
A.2.1 Aggregate Deposits (SCBs)	2.0	1.6	0.3	E. IIP (base $2011-12 = 100$) General index	12.5	15.1	0.5
A.2.1.1 Demand Deposits (SCBs)	15.1	11.4	3.8	E.1.1 IIP - Primary goods	14.7	14.0	0.5
A.2.1.2 Time Deposits (SCBs)	0.8	0.9	-0.2	E.1.2 IIP - Capital goods	50.8	<u> </u>	-2.0
A.3.1 Cash in Hand and Balances with RBI	6.1	4.7	1.3	E.1.5 IIP - Intermediate goods	10.0	10.1	0.7
(SCBs)				E.1.4 IIP - Infrastructure/ construction goods	14.2	15.0	1.2
A.3.2 Bank Credit (SCBs)	3.2	3.0	0.2	E.1.5 HP - Consumer goods	10.0	10.4	0.2
A.3.2.1 Loans, Cash, Credits and Overdrafts	3.5	2.9	0.5	E.1.5.1 IIP - Consumer durables	9.0	11.2	-1.0
(SCBs)				E.1.5.2 IIP - Consumer non-durables	15.3	13./	1.0
A.3.2.2 Non-Food Credit (SCBs)	3.9	3.4	0.5	E.2.1 IIP - Mining	35.0	32.9	2./
A.3.3 Investments (SCBs)	3.3	3.5	-0.2	E.2.2 IIP - Manufacturing	13.4	12.8	0.6
Price Indices[CPI: 21 series and WPI: 9 series]				E.2.2.1 IIP - Manufacture of food products	39.3	36.9	2.4
B. CPI (Base: 2012 = 100) All Commodities	1.7	1.8	-0.1	E.2.2.2 IIP - Manufacture of beverages	33.4	40.7	-7.3
B.1 CPI - Food and beverages	3.7	3.8	-0.1	E.2.2.3 IIP - Manufacture of textiles	5.7	5.5	0.2
B.1 .1 CPI - Cereals and products	0.6	0.7	-0.1	E.2.2.4 IIP - Manufacture of chemicals and	12.7	11.5	1.2
B.1 .2 CPI - Meat and fish	3.3	3.1	0.2	E 2 2 5 UD Manufacture of matamarkisha	16.4	15.0	0.5
B.1 .3 CPI - Egg	5.9	6.3	-0.3	E.2.2.5 IIP - Manufacture of motor venicles, trailers and semi-trailers	10.4	15.9	0.5
B.1 .4 CPI - Milk and products	0.3	0.5	-0.1	F 2 3 IIP - Flectricity	18.4	15.5	20
B.1 .5 CPI - Fruits	6.5	6.3	0.3	F 3 Cement Production	22.0	21.4	0.6
B.1 .6 CPI - Vegetables	22.3	22.2	0.1	E. Steel Production	11.6	10.1	1.6
B.1 .6.1 CPI - Potato	30.8	34.7	-3.8	E.5 Coal Production	67.1	50.8	7.4
B.1 .6.2 CPI - Onion	39.1	38.2	0.9	E. Court Foundation	10.8	10.5	03
B.1 .6.3 CPI - Tomato	67.5	66.5	1.0	E. 7 Petroleum Refinery Production	8.8	0.5	0.5
B.1 .7 CPI - Pulses and products	2.5	3.3	-0.9	E./ Fertilizer Droduction	21.0	9.)	-0.0
B.1 .8 CPI - Spices	0.8	1.1	-0.3	E.o Natural Cas Production	10.7	29.9	-1.5
B.1 .9 CPI - Non-alcoholic beverages	0.2	0.3	-0.1	E.9 Natural Gas Production 10.7 10.7		-0.1	
B.1.10 CPI - Prepared meals, snacks, sweets etc.	0.4	0.5	-0.1	- Service sector Indicators (0 series)			20
B.2 CPI - Clothing and footwear	0.3	0.4	-0.1	F.1 Production of Commercial Motor vehicles	27.5	25.0	2.0
B.3 CPI - Housing	1.3	1.2	0.1	F.2 Cargo nancied at Major Ports	15.4	15.4	0.0
B.4 CPI - Miscellaneous	0.3	0.4	-0.1	F.3 Railway Freight Traffic	22.0	19.5	2.5
C.1 Consumer Price Index for Industrial	2.3	2.4	-0.1	F.4 Sales of Commercial Motor vehicles	49.9	45.0	4.9
Workers (Base: 2001=100)				F.5 Passenger flown (Km) - Domestic	12.4	15./	-3.3
C.2 Consumer Price Index for Agricultural	1.6	2.0	-0.3	F.O Passenger flown (Km) - International	22.1	20.1	2.0
Labourers (Base: 1986-87=100)				Merchandise Trade (3 series)			
C.3 Consumer Price Index for Rural Labourers	1.6	1.9	-0.3	G.1 Exports	1/.6	16.4	1.2
(Base: 1980-8/=100)				G.2 Imports	10./	11.9	-1.2
D. WPI (Base: 2011-12=100) All Commodities	0.8	0.7	0.2	G.3 Non-Oil Non-Gold Imports 14.6 13.8 0.8		0.8	
D.1 WPI - PRIMARY ARTICLES	1.4	1.4	0.0	Alternate modes of Payment (4 series)			
D.1.1 WPI - Food Articles	4.5	4.8	-0.3	H.1 RTGS	36.9	42.0	-5.0
D.2 WPI - FUEL & POWER	23.3	21.7	1.6	H.2 Paper Clearing	21.8	21.8	0.0
D.3 WPI - MANUFACTURED PRODUCTS	5.6	5.4	0.2	H.3 REC	30.6	34.5	-3.9
D.3.1 WPI - Manufacture of Food Products	1.9	2.2	-0.2	H.4 Cards	12.9	12.8	0.1

*Average Range of Monthly Seasonal Factors of 5 year ending 2018-19.

Name of Top-Twenty Series	Average Range	Peak Month	Trough Month
1	2	3	4
B.1 .6.3 CPI - Tomato	65.6	Jul	Feb
E.5 Coal Production	56.8	Mar	Aug
E.2.2.2 IIP - Manufacture of beverages	44.5	May	Aug
F.4 Sales of Commercial Motor Vehicles	43.3	Mar	Apr
B.1 .6.2 CPI - Onion	40.4	Nov	May
H.1 RTGS	36.8	Mar	Feb
E.2.2.1 IIP - Manufacture of food products	36.7	Dec	Jun
B.1 .6.1 CPI - Potato	35.6	Nov	Feb
E.1.2 IIP - Capital goods	35.1	Mar	Apr
H.3 REC	31.1	Mar	Nov
E.2.1 IIP - Mining	30.8	Mar	Sep
E.8 Fertiliser Production	25.1	Oct	Apr
F.1 Production of Commercial Motor Vehicles	24.7	Mar	Jun
H.2 Paper Clearing	23.4	Mar	Sep
B.1 .6 CPI - Vegetables	23.0	Oct	Mar
E.3 Cement Production	22.4	Mar	Aug
F.5 Passenger flown (Km) - Domestic	20.1	May	Sep
F.3 Railway Freight Traffic	19.7	Mar	Sep
D.2 WPI - FUEL & POWER	19.4	Nov	Feb
G.1 Exports	18.8	Mar	Nov
B.1 .9 CPI - Non-alcoholic beverages	0.3	Sep	Mar
B.2 CPI - Clothing and footwear	0.5	Dec	Jun
B.1 .10 CPI - Prepared meals, snacks, sweets etc.	0.6	Nov	May
B.4 CPI - Miscellaneous	0.6	Sep	Apr
B.1 .4 CPI - Milk and products	0.6	Nov	Apr
B.1 .1 CPI - Cereals and products	0.7	Oct	May
D. WPI (Base: 2011-12=100) All Commodities	0.7	Oct	Mar
B.3 CPI - Housing	1.2	Jan	Jun
B.1 .8 CPI - Spices	1.3	Dec	Apr
A.2.1.2 Time Deposits (SCBs)	1.3	Apr	Dec
B.1 WPI - Primary Articles	1.3	Sep	Feb
A.2.1 Aggregate Deposits (SCBs)	1.5	Apr	Dec
B. CPI (Base: 2012 = 100) All Commodities	2.0	Oct	Mar
C.3 Consumer Price Index for Rural Labourers (Base: 198687=100)	2.0	Nov	Apr
C.2 Consumer Price Index for Agricultural Labourers (Base: 1986-87=100)	2.0	Nov	Apr
A.1.1 Broad Money (M3)	2.0	Apr	Dec
D.3.1 WPI - Manufacture of Food Products	2.2	Nov	Apr
C.1 Consumer Price Index for Industrial Workers (Base: 2001=100)	2.2	Nov	Apr
D.3.2 WPI - Manufacture of Chemicals & Chemical Products	2.3	Oct	Mar
A.3.3.1 Loans, Cash, Credits and Overdrafts (SCBs)	3.1	Mar	Aug

Table 7: List of Top-Twenty and Bottom-Twenty Series Based on Average Range of Monthly Seasonal Factors During Last Five Years (2015-16 to 2019-20) and Corresponding Peak and Trough Months