



सत्यमेव जयते

उद्योगों का वार्षिक सर्वेक्षण  
**ANNUAL SURVEY OF INDUSTRIES**  
2018-2019  
कारखाना क्षेत्र के सार परिणाम  
**SUMMARY RESULTS FOR FACTORY SECTOR**



**Data for Development**

भारत सरकार  
सांख्यिकी एवं कार्यक्रम कार्यान्वयन मंत्रालय  
राष्ट्रीय सांख्यिकी कार्यालय  
डाटा क्वालिटी एस्युरेंस डिविजन  
(औद्योगिक सांख्यिकी स्कंध)  
कोलकाता

**GOVERNMENT OF INDIA**  
**MINISTRY OF STATISTICS AND PROGRAMME**  
**IMPLEMENTATION**  
**NATIONAL STATISTICAL OFFICE**  
**DATA QUALITY ASSURANCE DIVISION**  
**(INDUSTRIAL STATISTICS WING)**  
**KOLKATA**



उद्योगों का वार्षिक सर्वेक्षण  
**ANNUAL SURVEY OF INDUSTRIES**  
**2018-2019**

कारखाना क्षेत्र के सार परिणाम  
**SUMMARY RESULTS FOR**  
**FACTORY SECTOR**



भारत सरकार  
सांख्यिकी एवं कार्यक्रम कार्यान्वयेन मंत्रालय  
राष्ट्रीय सांख्यिकी कार्यालय  
डाटा क्वालिटी एस्यूरेंस डिविजन  
(औद्योगिक सांख्यिकी स्कंध)  
कोलकाता

**GOVERNMENT OF INDIA**  
**MINISTRY OF STATISTICS AND PROGRAMME IMPLEMENTATION**  
**NATIONAL STATISTICAL OFFICE**  
**DATA QUALITY ASSURANCE DIVISION**  
**(INDUSTRIAL STATISTICS WING)**  
**KOLKATA**

## प्रस्तावना

उद्योगों का वार्षिक सर्वेक्षण (उ.वा.स.) भारत के औद्योगिक परिदृश्य के वस्तुनिष्ठ मूल्यांकन हेतु पंजीकृत विनिर्माण क्षेत्र के महत्वपूर्ण अभिलक्षणों के विषय में सूचना देता है। इसमें कारखाना अधिनियम, 1948 के अन्तर्गत पंजीकृत कारखानों और बीड़ी और सिगार कामगार (रोजगार की शर्तें) अधिनियम, 1966 के अधीन आने वाले प्रतिष्ठान और विद्युत उत्पादन, संचारण तथा वितरण करने वाले सभी विद्युत उपक्रम, जो केंद्रीय विद्युत प्राधिकरण (सी.ई.ए) द्वारा पंजीकृत नहीं हैं, शामिल हैं। सर्वेक्षण परिणाम योजनाकारों, नीति निर्माताओं, उद्योग संस्थाओं, अन्वेषकों तथा व्यवसाय एवं उद्योग विश्लेषकों द्वारा व्यापक रूप से प्रयोग किए जाते हैं।

उ.वा.स. 2018-19 का आयोजन 'एएसआई वेब पोर्टल' नामक वेब आधारित प्रणाली के माध्यम से किया गया था। उ.वा.स. 2018-19 के लिए प्रतिदर्श चयन, डाटा प्रविष्टि, विधिमान्यकरण, संवीक्षा आदि 'एएसआई वेब पोर्टल' के माध्यम से ऑनलाइन संपन्न किया गया था।

प्रथा अनुसार, उ.वा.स. के परिणाम दो खंडों में प्रकाशित होते हैं। खण्ड-1 में पूँजी, रोजगार, परिलब्धियों, और औद्योगिक क्षेत्र से संबंधित कई अन्य आर्थिक मापदंड जैसे- (i) कारखानों की संख्या (ii) अचल/कार्यशील पूँजी (iii) कुल इनपुट (iv) कुल आउटपुट (v) अवमूल्यन (vi) निवल वर्धित मूल्य आदि से संबंधित डाटा दर्शाए गए हैं। प्रकाशन के खण्ड-11 में उपभोग की गई सामग्रियां और अखिल भारतीय स्तर के साथ-साथ राज्य/संघ राज्य क्षेत्र स्तर पर उत्पादों और उपोत्पादों के कारखाना मूल्य (ex-factory price) का विस्तृत विवरण उपलब्ध है। जबकि खण्ड-1 को मंत्रालय की वेबसाइट ([www.mospi.gov.in](http://www.mospi.gov.in)) पर अपलोड किया जाता है, वहीं खण्ड-11 को सीडी-रोम पर प्रकाशित किया जाता है।

राष्ट्रीय सांख्यिकी कार्यालय (NSO) ने उ.वा.स. परिणामों की मुख्य विशेषताओं की तरफ ध्यान आकर्षित करने के लिए संक्षिप्त प्रकाशन के महत्व को मान्यता दी है। इस उद्देश्य को ध्यान में रखते हुए 'कारखाना क्षेत्र का सार परिणाम' को पृथक प्रकाशन के रूप में लाया जा रहा है और इसे मंत्रालय की वेबसाइट ([www.mospi.gov.in](http://www.mospi.gov.in)) पर अपलोड किया जा रहा है। इस प्रकाशन का उद्देश्य अखिल भारतीय और राज्य/संघ राज्य क्षेत्र के प्रधान अभिलक्षणों पर विशेष तालिकाओं के माध्यम से उ.वा.स. परिणामों के सार दृष्टिकोण एवं राष्ट्रीय औद्योगिक वर्गीकरण- 2008 (एन.आई.सी.-2008) के 2-अंकीय स्तर पर ध्यान केंद्रित करना है। यह रोजगार के आकार, पूँजी, सकल आउटपुट और निवल वर्धित मूल्य जैसे महत्वपूर्ण अभिलक्षणों के आधार पर कारखानों के वितरण की भी जानकारी देता है। प्रत्येक राज्य/संघ राज्य क्षेत्र के साथ-साथ अखिल भारतीय स्तर पर कम से कम 80% अंशदान करने वाले प्रमुख उद्योगों से संबंधित तालिकाएं, क्षेत्रीय स्तर पर औद्योगिक परिदृश्य की छवि दर्शाती हैं। इसके अतिरिक्त, यह पंजीकृत विनिर्माण क्षेत्र में समय के साथ हुए परिवर्तनों की बेहतर परिकल्पना करने हेतु चार्ट और ग्राफ उपलब्ध कराता है।

इन खंडों को प्रकाशित करने हेतु राष्ट्रीय सांख्यिकी कार्यालय (NSO) के क्षेत्र कार्य प्रभाग एवं औद्योगिक सांख्यिकी स्कंध, डाटा क्वालिटी एश्योरेंस डिविजन के सभी अधिकारियों एवं कर्मचारियों के समर्पित प्रयासों की मैं प्रशंसा करता हूँ। मैं कारखाना प्रबंधन द्वारा संगत अभिलेखों से डाटा एकत्रित करने में क्षेत्र अधिकारियों को किये गए सहयोग की भी प्रशंसा करता हूँ।

इस रिपोर्ट के सुधार हेतु सुझावों का स्वागत है।



अजय कुमार गुप्त  
महानिदेशक(एनएसएस)  
राष्ट्रीय सांख्यिकी कार्यालय  
सांख्यिकी एवं कार्यक्रम कार्यान्वयन मंत्रालय  
भारत सरकार



## PREFACE

Annual Survey of Industries (ASI) provides information on important characteristics of registered manufacturing sector for objectively evaluating the industrial scenario of India. It covers the factories registered under the Factories Act, 1948 and establishments under Bidi and Cigar Workers (Conditions of Employment) Act, 1966 and all electricity undertakings engaged in generation, transmission and distribution of electricity, not registered with the Central Electrical Authority (CEA). The survey results are used extensively by the planners and policy makers, industry associations, research scholars and business & industry analysts.

ASI 2018-19 was conducted through a web-based system called 'ASI Web Portal'. The sample selection, data entry, validations, scrutiny etc. for ASI 2018-19 have been accomplished online through the ASI Web Portal.

As a matter of convention, the ASI results are published in two volumes. Volume I presents data relating to capital, employment, emoluments and several other economic parameters relevant to industrial sector such as (i) number of factories (ii) fixed/working capital (iii) total input (iv) total output (v) depreciation (vi) net value added etc. Volume II of the publication provides details on material consumed and ex-factory value of products and by-products both at all-India level as well as at the level of State/UTs. While Volume I is uploaded on the website of the Ministry ([www.mospi.gov.in](http://www.mospi.gov.in)), Volume II is a CD-ROM publication.

National Statistical Office (NSO) recognized the importance of an abridged publication to draw attention to certain key features of the ASI results. With this objective in view, "Summary Results for Factory Sector" is being brought out as a separate publication and also uploaded on website of the Ministry ([www.mospi.gov.in](http://www.mospi.gov.in)). This publication is intended to focus on a summary view of ASI results through special tables on principal characteristics at All-India and States/UTs and at 2-digit level of National Industrial Classification-2008 (NIC). It also gives the distribution of factories by important characteristics such as size of employment, capital, gross output and net value added. The tables, related to the major industries contributing at least 80% of the total output within each State/UT as well as at all-India level provide a picture of the industrial scenario at regional level. Besides, it provides charts and graphs to help better visualization of the changes over time in the registered manufacturing sector.

I wish to place on record my appreciation for all the officers and staff members of Field Operations Division and Industrial Statistics Wing, Data Quality Assurance Division of NSO for their dedicated efforts in bringing out the publication. I also record my appreciation for the factory management, who had extended all co-operations to the field officers in collecting the data from relevant records.

Suggestions for improvement are most welcome.



Ajay Kumar Gupta  
Director General (NSS)  
National Statistical Office  
Ministry of Statistics & Programme Implementation  
Government of India

New Delhi  
August, 2021



# उद्योगों का वार्षिक सर्वेक्षण: 2018-2019

## विषय-वस्तु

### कारखाना क्षेत्र के सार परिणाम

<u>विषय</u>	<u>पृष्ठ संख्या</u>
भाग-1 भूमिका	S1-1 – S1-15
भाग-2 कारखाना की संख्या के आकलन हेतु प्रक्रियाएं	S2-1 – S2-9
भाग-3 मुख्य विशिष्टताएं-सर्वभारतीय स्तर पर	S3-1 – S3-5
भाग-4 मुख्य विशिष्टताएं-उद्योग (एन.आई.सी. 2-अंकीय) स्तर	S4-1 – S4-6
भाग-5 मुख्य विशिष्टताएँ-राज्य/संघ राज्य क्षेत्र स्तर	S5-1 – S5-8
भाग-6 वृहत प्रवर्ग के आधार पर मुख्य विशिष्टताएँ	S6-1 – S6-3
भाग-7 नियोजन के आकार के आधार पर कारखानों का विभाजन	S7-1 – S7-10
भाग-8 पूंजी के आकार के आधार पर कारखानों का विभाजन	S8-1 – S8-3
भाग-9 सकल उत्पाद के आकार के आधार पर कारखानों का विभाजन	S9-1 – S9-3
भाग-10 वर्धित निवल मूल्य के आकार के आधार पर कारखानों का विभाजन	S10-1 – S10-3
भाग-11 प्रत्येक राज्य/संघ राज्य क्षेत्र के अंदर कम से कम 80% योगदान करने वाले कुल उत्पाद के आधार पर बड़े उद्योगों का हिस्सा	S11-1 – S11-10
भाग-12 प्रत्येक उद्योगों के अंदर तीन महत्वपूर्ण राज्यों/संघ राज्य क्षेत्रों का कम से कम 80% योगदान कुल उत्पाद के आधार पर बड़े उद्योगों का हिस्सा	S12-1 – S12-10
परिशिष्ट – I : सांख्यिकी अधिनियम एवं नियमों का संकलन	A.I-1 – A.I-21
परिशिष्ट – II : प्राक्कलन की प्रक्रिया	A.II-1 – A.II-6
परिशिष्ट – III : उ.वा.स. अनुसूची	A.III-1 – A.III-12
परिशिष्ट – IV : अवधारणाएं एवं परिभाषाएं	A.IV-1 – A.IV-6

# ANNUAL SURVEY OF INDUSTRIES: 2018-2019

## CONTENTS

### SUMMARY RESULTS FOR FACTORY SECTOR

<u>SUBJECTS</u>	<u>PAGE NOS</u>
Section – 1 Introduction	S1-1 – S1-15
Section – 2 Procedures for Estimating Number of Factories	S2-1 – S2-9
Section – 3 Principal Characteristics – All- India Level	S3-1 – S3-5
Section – 4 Principal Characteristics –Industry (NIC-2 digit) Level	S4-1 – S4-6
Section – 5 Principal Characteristics - State/UT Level	S5-1 – S5-8
Section – 6 Principal Characteristics by Broad Categories	S6-1 – S6-3
Section – 7 Distribution of Factories in Operation by Size of Employment	S7-1 – S7-10
Section – 8 Distribution of Factories in Operation by Size of Capital	S8-1 – S8-3
Section – 9 Distribution of Factories in Operation by Size of Total Output	S9-1 – S9-3
Section – 10 Distribution of Factories in Operation by Size of Net Value Added	S10-1 – S10-3
Section – 11 Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT	S11-1 – S11-10
Section – 12 Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry	S12-1 – S12-10
Annexure - I: Collection of Statistics Act and Rules	A.I-1 – A.I-21
Annexure - II: Estimation Procedure	A.II-1 – A.II-6
Annexure - III: ASI Schedule	A.III-1 – A.III-12
Annexure - IV: Concepts and Definitions	A.IV-1 – A.IV-6

## 1. परिचय

### 1.1 क्षेत्र और विस्तार

**1.1.1** उद्योगों का वार्षिक सर्वेक्षण (उ.वा.स.) सांख्यिकी संग्रहण अधिनियम, 1953 के तहत 1959 से किया जा रहा है। वर्तमान में यह सर्वेक्षण 2017 में यथासंशोधित व 2011 में उनके तहत बनाए गए नियमावली के अनुसार सांख्यिकी संग्रहण अधिनियम, 2008 के तहत किया जा रहा है। सर्वेक्षण इस उद्देश्य से तैयार किया गया है जिससे देश के सकल घरेलू उत्पाद में पंजीकृत विनिर्माण क्षेत्र के योगदान का प्राक्कलन प्राप्त किया जा सके तथा उद्योगों के प्रकार के अनुसार उद्योगों की संरचना का व्यवस्थित अध्ययन व औद्योगिक नीतियों के निर्माण को प्रभावित करने वाले विभिन्न कारकों का अध्ययन किया जा सके। उपरोक्त अधिनियम तथा उसके तहत बनाई गई नियमावली की प्रति **परिशिष्ट-1** में दी गई है।

**1.1.2** उद्योगों के वार्षिक सर्वेक्षण का विस्तार फैक्टरी अधिनियम, 1948 की धारा 2(एम)(i) तथा 2(एम)(ii) के अंतर्गत पंजीकृत औद्योगिक इकाइयों (जो कारखाना कहलाती है) तक सम्मिलित समग्र कारखाना क्षेत्र पर है, जिसमें 'कारखाना' जो उद्योगों के वार्षिक सर्वेक्षण के लिए परिगणना की प्राथमिक सांख्यिकी इकाई है, की परिभाषा इस प्रकार दी गई है—

अपनी परिसीमाओं सहित कोई भी 'ऐसा परिसर':—

- (i) जहाँ दस या उससे अधिक कामगार काम कर रहे हों या पिछले बारह महीनों में किसी भी दिन काम कर रहे थे, तथा उसके किसी भी भाग में विद्युत शक्ति की सहायता से कोई विनिर्माण कार्य किया जा रहा हो, या साधारणतः ऐसा किया जाता हो, अथवा
- (ii) जहाँ बीस या उससे अधिक कामगार काम कर रहे हों या पिछले बारह महीनों में किसी भी दिन काम कर रहे थे, तथा उसके किसी भी भाग में विद्युत शक्ति की सहायता के बिना कोई विनिर्माण कार्य किया जा रहा हो, या साधारणतः ऐसा किया जाता हो, परंतु इसमें खान अधिनियम, 1952 के प्रावधानों के अनुसार कोई खान या चालू रेलवे शेड शामिल नहीं है।

उपर उल्लिखित 'विनिर्माण कार्य' को कारखाना अधिनियम, 1948 में (धारा 2(के) को देखें) निम्न रूप से परिभाषित किया गया है—

'कोई प्रक्रिया' जो:

- (i) किसी भी वस्तु या पदार्थ को उसके उपयोग, बिक्री, परिवहन, सुपुर्दगी या निपटान के उद्देश्य से बनाने, रूपांतरित करने, अलंकृत, परिसज्जित करने, पैकिंग करने, ऑइलिंग करने, धोने, सफाई करने, अलग-अलग पुर्जों में विभाजित करने, ध्वस्त करने या अन्य किसी प्रकार से संसाधित करने या अनुकूल बनाने; अथवा
- (ii) तेल, पानी या गंदे पानी को पंप करके निकालने; अथवा
- (iii) विद्युत शक्ति उत्पन्न करने, रूपांतरित करने या प्रसारित करने; अथवा
- (iv) लेटर प्रेस द्वारा मुद्रण के लिए टाइप कम्पोज करने, लिथोग्राफी, फोटोग्राफी, फोटोग्रेव्योर या अन्य किसी प्रक्रिया से मुद्रण करने या जिल्दसाजी करने; अथवा
- (v) जहाजों या जलयानों का निर्माण करने, पुनर्निर्माण करने, मरम्मत करने, उनके पुर्जे खोलकर पुनः लगाने, उन्हें परिसज्जित करने या अलग-अलग पुर्जों में विभाजित करने; अथवा,
- (vi) किसी वस्तु को शीतागार में परिरक्षित करने के लिए प्रयोग किया जाता है।

**1.1.3** कारखाना अधिनियम, 1948 की धारा 2(एम)(i) और 2(एम)(ii) के अतिरिक्त बीड़ी एवं सिगार इकाइयाँ, जहाँ पर विद्युत शक्ति की सहायता से 10 अथवा उससे अधिक श्रमिक एवं विद्युत शक्ति की सहायता के बिना 20 अथवा उससे अधिक श्रमिक काम करते हैं, एवं जो बीड़ी एवं सिगार श्रमिक (रोजगार शर्तें) अधिनियम, 1966 के अंतर्गत पंजीकृत इकाइयाँ हैं, उ.वा.स. में शामिल हैं। विद्युत उत्पादन, संचारण, तथा वितरण में लगे सभी विद्युत उपक्रम जो केंद्रीय विद्युत प्राधिकरण (सी.ई. ए) द्वारा पंजीकृत नहीं हैं वे भी उ.वा.स. में शामिल हैं।

**1.1.4** उ.वा.स. 2014-15 से क्षेत्र का विस्तार कारखाना अधिनियम, 1948 की धारा 2(एम)(i) व 2(एम)(ii) के बाहर भी किया गया है। प्रारंभ में, 100 या उससे अधिक कर्मचारियों वाली वैसी इकाइयाँ जो कारखाना अधिनियम, 1948 के खंड 2(एम) (i) व 2(एम) (ii) के अंतर्गत पंजीकृत नहीं थी, परंतु जो बिजनेस रजिस्टर ऑफ एस्टेब्लिसमेंट (BRE) मे राज्य सरकारों द्वारा तैयार तथा राष्ट्रीय सांख्यिकी कार्यालय (एन. एस.ओ.) के क्षेत्र संकार्य प्रभाग (एफ.ओ.डी.) द्वारा सत्यापित किसी भी सात अधिनियम/बोर्ड/प्राधिकरण जैसे, कंपनी अधिनियम, 1956; कारखाना अधिनियम, 1948; शॉप्स एंड कमर्शियल एस्टेब्लिसमेंट एक्ट; समिति रजिस्ट्रीकरण अधिनियम ; कोऑपरेटिव सोसाइटीज एक्ट; खादि एवं ग्रामीण उद्योग बोर्ड; उद्योग निदेशालय (ज़िला उद्योग केंद्र ) के अंतर्गत पंजीकृत हों, उन्हें भी चयन हेतु विचार किया जाता है।

**1.1.5** यद्यपि उद्योगों के वार्षिक सर्वेक्षण के विषय क्षेत्र में देश की समस्त पंजीकृत विनिर्माण संस्थाएं शामिल हैं, तथापि रक्षा संस्थान, तेल संग्रहण एवं वितरण करने वाले डिपो, रेस्तरां, होटल, कैफे एवं कम्प्यूटर सेवाएं, विभागीय इकाइयाँ जैसे रेलवे वर्कशॉप, आर.टी.सी. वर्कशॉप, सरकारी टकसाल, सफाई, जल आपूर्ति, गैस भंडारण इकाई, आदि को सर्वेक्षण के क्षेत्र से बाहर रखा गया है। सर्वेक्षण 2017 में यथासंशोधित व



उनके तहत 2011 में बनाए गए नियमों के तहत सांख्यिकी संग्रहण अधिनियम, 2008 के सांविधिक प्रावधानों के तहत सालाना किया जाता है। 2018-2019 से उद्योगों के वार्षिक सर्वेक्षण का भौगोलिक विस्तार संपूर्ण देश में कर दिया गया है।

## 1.2 परिगणना एकक

**1.2.1** विनिर्माणकारी उद्योगों के मामले में सर्वेक्षण के लिए परिगणना की प्राथमिक इकाई कारखाना है, जबकि मरम्मत सेवाओं के मामले में यह इकाई वर्कशॉप है, विद्युत, गैस एवं जल आपूर्ति करने वाले उपक्रमों के मामले में उपक्रम अथवा लाइसेंसधारी तथा बीड़ी एवं सिगार उद्योगों के क्षेत्र में प्रतिष्ठान है। तथापि केवल एक ही राज्य में स्थित किसी एक ही उद्योग समूह एवं एक ही योजना के अंतर्गत आने वाले दो या इससे अधिक प्रतिष्ठानों के मालिक को एक ही 'संयुक्त रिटर्न' प्रस्तुत करने की अनुमति दी जाती है। उ.वा.स. में कुछ कारखानों के मामले में ऐसे समेकित रिटर्न एक आम प्रचलन है।

## 1.3 उ.वा.स फ्रेम

**1.3.1** उ.वा.स का फ्रेम प्रत्येक राज्य में मुख्य कारखाना निरीक्षक (मु.का.नि.) द्वारा रखी जा रही पंजीकृत कारखाना इकाइयों तथा बीड़ी एवं सिगार प्रतिष्ठानों एवं विद्युत उपक्रमों के संबंध में लाइसेंसिंग प्राधिकरणों द्वारा रखी जा रही सूचियों पर आधारित है। राज्य के मुख्य कारखाना निरीक्षक के साथ परामर्श करते हुए राष्ट्रीय सांख्यिकी कार्यालय (NSO) के क्षेत्रीय संकार्य प्रभाग के क्षेत्रीय कार्यालयों द्वारा फ्रेम में संशोधन एवं समय समय पर इसे अद्यतन किया जा रहा है। संशोधित करते समय उन कारखानों के नाम उ.वा.स फ्रेम से हटा दिया जाता है जिनका पंजीकरण रद्द कर दिया गया हो तथा साथ ही नई पंजीकृत कारखानों के नाम उसमें शामिल कर लिए जाते हैं। फ्रेम को अद्यतित करते समय केवल नई पंजीकृत इकाइयों को ही विद्यमान फ्रेम में शामिल किया जाता है। फ्रेम को नियमित रूप से अद्यतन किए जाने के बावजूद यह पाया जाता है कि सर्वेक्षण के लिए चयनित बहुत से कारखानों को अनस्तित्व, अपंजीकरण, तथा कवरेज से बाहर होने जैसे कारणों से निकाल दिए गए हैं।

**1.3.2** उल्लेखनीय है कि प्रचालन में रहे कारखानों को छोड़कर उ.वा.स. फ्रेम में वैसे कारखाने हैं, जिन्हें पैरा 1.6.2 में परिभाषित 'अचल आस्तियों व मेनटेनिंग स्टाफ सहित विद्यमान, परंतु उत्पादन रहित हैं' तथा 'अचल आस्तियों सहित विद्यमान, परंतु मेनटेनिंग स्टाफ व उत्पादन रहित हैं' की श्रेणी में रखा गया है।

## 1.4 संदर्भ अवधि

**1.4.1** उ.वा.स. 2018-2019 की संदर्भ अवधि कारखाना का लेखा वर्ष था, जो वित्तीय वर्ष 2018-2019 के दौरान किसी भी दिन समाप्त हो सकता था। अतः उ.वा.स. 2018-2019 में विभिन्न स्थापनाओं से संग्रहित किए गए आँकड़े उनके अपने लेखा वर्ष से संबंधित हैं, जो 1 अप्रैल, 2018 व 31 मार्च, 2019 के बीच किसी भी दिन समाप्त हो सकते थे। यह सर्वेक्षण नवंबर, 2019 से नवंबर, 2020 के दौरान आयोजित किया गया था।

## 1.5 प्रतिदर्श डिजाइन एवं प्रतिदर्श आबंटन

**1.5.1** उ.वा.स. 2018-2019 में अपनाए गए प्रतिदर्श डिजाइन के अनुसार उ.वा.स. प्रतिदर्श के दो भाग हैं- केंद्रीय प्रतिदर्श व राज्य प्रतिदर्श। केंद्रीय प्रतिदर्श के दो स्कीम हैं- गणना और प्रतिदर्श। गणना स्कीम के अंतर्गत सभी इकाइयों का सर्वेक्षण किया जाता है।

**1.5.2 गणना स्कीम** : गणना स्कीम की निम्नलिखित इकाइयाँ हैं-

(क) सभी औद्योगिक इकाइयाँ, जो औद्योगिक रूप से सात कम विकसित राज्य/संघ राज्य क्षेत्र यथा- अरुणाचल प्रदेश, मणिपुर, मेघालय, नागालैंड, सिक्किम, त्रिपुरा एवं अंडमान एवं निकोबार द्वीपसमूह में स्थित है।

(ख) फ्रेम NIC= 0893 (नमक संकषण) की सभी इकाइयाँ।

(ग) 'क' में उल्लिखित को छोड़कर अन्य राज्यों/संघ राज्य क्षेत्रों के लिए।

(i) छः राज्यों यथा- जम्मू और कश्मीर, हिमाचल प्रदेश, राजस्थान, बिहार, छत्तीसगढ़ और केरल की वैसी इकाइयाँ जिनमें 75 या अधिक कर्मचारी काम करते हैं।

(ii) तीन राज्यों यथा- चंडीगढ़, दिल्ली तथा पुडुच्चेरी की वैसी इकाइयाँ जिनमें 50 या अधिक कर्मचारी काम करते हैं।

(iii) वे इकाइयाँ जिनमें 100 या इससे ज्यादा कामगार हों एवं जो उपरोक्त (i) तथा (ii) में उल्लिखित नहीं हैं।

(iv) संयुक्त रिटर्न के अंतर्गत आनेवाली सभी इकाइयाँ जहाँ संयुक्त रिटर्न तभी मान्य है जब एक ही प्रबंधन के अंतर्गत एक ही राज्य/संघ राज्य क्षेत्र में स्थित (3-अंकीय एन.आई.सी स्तर) कारखाना की दो या अधिक इकाइयाँ हों।

(घ) उपरोक्त (क), (ख) एवं (ग) में परिभाषित गणना स्कीम इकाइयों को छोड़कर स्टार्टा का निर्माण (राज्य x जिला x क्षेत्र x तीन अंकीय एन.आई.सी -2008) स्तर पर किया जाता है। यहाँ, 'क्षेत्र' बहुत विशाल आर्थिक समूह है जिसमें विनिर्माण, विद्युत उत्पादन कार्य तथा 'बीडी' बनाने का कार्य शामिल है। इस प्रकार, संक्षेप में, (i) बीडी (ii) विनिर्माण और (iii) विद्युत क्षेत्र हैं। स्टार्टा से संबंधित सभी इकाइयाँ (अर्थात् राज्य x जिला x क्षेत्र x तीन अंकीय एन.आई.सी-2008 के आधार पर निर्मित) जो चार इकाइयों के बराबर या उससे कम हैं, की भी संपूर्ण गणना की जाती है और उन्हें भी 'गणना क्षेत्र' की इकाई समझा जाता है।

#### (ड.) प्रतिदर्श स्कीम :

फ्रेम में बचे हुए सारे इकाइयों को प्रतिदर्श स्कीम के अंतर्गत समझा जाता है। सभी राज्यों के लिए स्तर का निर्माण प्रत्येक राज्य x जिला x क्षेत्र x तीन अंकीय एन.आई.सी -2008 कारखानों के लिए किया जाता है। प्रत्येक स्टैटम में इकाइयों को कर्मचारियों की संख्या के अनुसार अवरोही क्रम में रखा जाता है। प्रतिदर्श चयन हेतु स्टैटिफाइड सर्कुलर सिस्टैमेटिक प्रतिदर्श तरीका अपनाया जाता है। न्यूनतम चार इकाइयों वाले संसंख्यक इकाइयों का चयन किया जाता है और उसे चार उप-प्रतिदर्शों में बराबर बाँट दिया जाता है। उल्लेखनीय है कि एक विशेष स्टैटम के चार उप-प्रतिदर्शों की संख्या समान नहीं हो सकती है।

- (च) इन चार उप-प्रतिदर्शों में से दो पूर्व-निर्दिष्ट उप-प्रतिदर्श राष्ट्रीय सांख्यिकी कार्यालय (NSO) (क्ष.का.प्र.) को दिया जाता है और बाकी दो उप-प्रतिदर्श डाटा संग्रहण हेतु राज्य/संघ राज्य क्षेत्र को दे दिया जाता है।
- (छ) संपूर्ण गणना इकाई व राष्ट्रीय सांख्यिकी कार्यालय (NSO) (क्ष.का.प्र.) को दिए गए दो उप-प्रतिदर्शों की सभी इकाइयों को केंद्रीय प्रतिदर्श समझा जाता है।
- (ज) राज्य/संघ राज्य क्षेत्र को दिए गए दो उप-प्रतिदर्शों का अपने राज्य/संघ राज्य क्षेत्र द्वारा कैनवास किया जाना है। अतः राज्य/ संघ राज्य क्षेत्रों को उनके संबंधित राज्य/संघ राज्य क्षेत्र के जिला स्तरीय प्राक्कलनों को प्राप्त करते समय राज्य प्रतिदर्श डाटा सहित (राष्ट्रीय सांख्यिकी कार्यालय (NSO) (क्ष.का.प्र.) द्वारा संग्रहित तथा औ.सां स्कंध, डाटा क्वालिटी एश्योरेंस डिविजन(DQAD), राष्ट्रीय सांख्यिकी कार्यालय (NSO) द्वारा संसाधित) डाटा का प्रयोग करना पड़ता है।
- (झ) राज्य प्रतिदर्श एवं केंद्रीय प्रतिदर्श 'पूल' करने हेतु संपूर्ण गणना इकाई व राष्ट्रीय सांख्यिकी कार्यालय (NSO) (क्ष.का.प्र.) को दिए गए दो उप-प्रतिदर्शों की सभी इकाइयों व राज्य/संघ राज्य क्षेत्र को दिए गए दो उप-प्रतिदर्शों की आवश्यकता पड़ती है।

**1.5.3** उल्लेखनीय है कि प्रतिदर्शों को सभी स्टार्टा से 10.5% समग्र प्रतिदर्श अंश समझकर लिया गया है। 'खुला', 'अचल आस्तियां व मेनटेनिंग स्टाफ सहित विद्यमान परंतु उत्पादन रहित' तथा 'अचल आस्तियों सहित परंतु मेनटेनिंग स्टाफ व उत्पादन रहित' स्थिति वाली इकाइयों वाले लाइव फ्रेम का आकार 2,44,147 था। इनमें से 54,273 इकाइयाँ गणना क्षेत्र से संबंधित थीं, जबकि शेष 1,89,874 इकाइयाँ प्रतिदर्श क्षेत्र से संबंधित थीं। उ.वा.स. 2018-19 हेतु कुल प्रतिदर्श आकार 77,919 (गणना 54,273 तथा प्रतिदर्श 23,646) इकाइयाँ थीं।

#### 1.6 प्राक्कलन पद्धति

**1.6.1** प्राक्कलन की विशेषताओं के लिए प्रतिदर्श डिजाइन और पद्धतियों को परिशिष्ट-II में दिखाया गया है।

**1.6.2** कुछ चयनित इकाइयों के संबंध में सर्वेक्षण के दौरान पाया जाता है कि इकाई दिए गए स्थान पर विद्यमान थी और संदर्भ अवधि के दौरान कुछ कामगार भी काम में लगे हुए थे, परंतु विभिन्न कारणों से संदर्भ अवधि में उनका उत्पादन शुरू नहीं हुआ था और जो समस्याओं का समाधान होने पर किसी भी क्षण उत्पादन प्रारंभ कर सकता है। इन इकाइयों को संदर्भ अवधि के दौरान उ.वा.स. के उद्देश्य से 'अचल आस्तियां व मेनटेनिंग स्टाफ सहित विद्यमान परंतु उत्पादन रहित' समझा जाता है और उसी तरह से दूसरे सर्वेक्षणक्षित इकाइयों (यथा- ऐसी इकाई जिनके लिए संगत सूचना एकत्रित की जा सके) के साथ सभी मापदण्डों जैसे, आस्तियाँ, रोजगार, इत्यादि में रखा जाता है। कुछ दूसरे इकाई भी हैं जो किसी दिए गए स्थान पर विद्यमान थीं, परंतु संदर्भ अवधि में किसी कामगार की नियुक्ति नहीं की और संदर्भ अवधि में न तो उत्पादन आरंभ किया और न ही कोई उत्पादन किया। ऐसी इकाइयों को उ.वा.स. के उद्देश्य से, संदर्भ अवधि में 'अचल आस्तियों सहित परंतु मेनटेनिंग स्टाफ व उत्पादन रहित' समझा जाता है। इसके अलावा, साधारणतः, ऐसी इकाइयों को लगातार तीन वर्षों तक फ्रेम में रखा जाता है और सर्वेक्षण में चयन के लिए यह सोचकर उपयुक्त समझा जाता है कि वे कुछ कामगारों को रखकर कभी भी उत्पादन प्रारंभ कर सकते हैं। तथापि, यदि लगातार तीन वर्षों तक ऐसी इकाइयाँ जो 'अचल आस्तियों सहित परंतु मेनटेनिंग स्टाफ व उत्पादन रहित' अस्तित्व में पायी जाती हैं, तो इन्हें मृत मान लिया जाता है और

फ्रेम से विलुप्त कर सर्वेक्षण से हटा दिया जाता है। उल्लेखनीय है कि संदर्भित अवधि के लिए इकाइयों(कारखानों) की प्राक्कलित संख्या देने में, इस रिपोर्ट में प्रस्तुत मापदण्डों के प्रचलित तरीके से प्राक्कलन के लिए इन इकाइयों को अन्य सर्वेक्षित इकाइयों के साथ रखा जाता है।

**1.6.3** प्रकाशन में जो परिणाम दिए गए हैं वे, क्षेत्र संकार्य प्रभाग, राष्ट्रीय सांख्यिकी कार्यालय (NSO) द्वारा संग्रहित तथा औ.सां.स्कंध, डाटा क्वालिटी एश्योरेंस डिविजन(DQAD), राष्ट्रीय सांख्यिकी कार्यालय (NSO) द्वारा संसाधित केंद्रीय प्रतिदर्श डाटा पर आधारित हैं। इसके अतिरिक्त, इस प्रकाशन में दिए गए प्राक्कलित मूल्य के आँकड़े वर्तमान मूल्यों में दिए गए हैं। मूल्यांकों को हजार या लाख रू. के पूर्णांक में लिखा जाता है। अखिल भारतीय आँकड़ों को अलग से पूर्णांक में लिखा जाता है जो राज्य/संघ राज्य क्षेत्र आँकड़ों के योग से मेल नहीं भी खा सकते हैं। इसी प्रकार, सर्व-उद्योग आँकड़े अलग-अलग उद्योग आँकड़ों के योग से मेल नहीं भी खा सकते हैं। विभिन्न स्तरों पर उद्योगों के विलयन के कारण (पैरा 1.10.2), निम्न स्तर की उद्योगवार कुल संख्या का मेल परवर्ती उच्चतर संख्या से नहीं भी हो सकता है।

## 1.7 जाँच की अनुसूची

**1.7.1** उ.वा.स. 2018-19 की अनुसूची के दो भाग हैं। भाग-1, जिसका संसाधन औ.सां.स्कंध, डाटा क्वालिटी एश्योरेंस डिविजन(DQAD), राष्ट्रीय सांख्यिकी कार्यालय(NSO) में किया जाता है, का उद्देश्य अचल आस्तियों और देयताओं, रोजगार एवं श्रम लागत, फुटकर प्राप्ति, फुटकर व्यय, उपभुक्त सामग्री- देशी एवं आयातित, विनिर्मित उत्पाद एवं उपोत्पाद, विभाजक व्यय आदि के संबंध में डाटा संग्रह करना है। भाग दो, जिसका संसाधन श्रम ब्यूरो द्वारा किया जाता है, का उद्देश्य श्रम सांख्यिकी से संबंधित विभिन्न पक्षों, जैसे कार्य दिवस, श्रम घंटे, अनुपस्थिति, श्रमिकावर्त, उपार्जन एवं सामाजिक सुरक्षा लाभों के बारे में डाटा एकत्रित करना है।

**1.7.2** उ.वा.स. 2018-19 अनुसूची की एक प्रति *परिशिष्ट-III* में दी गई है। उ.वा.स. सर्वेक्षण में प्रयुक्त विभिन्न अवधारणाएं व परिभाषाएं *परिशिष्ट-IV* में दी गई हैं।

## 1.8 उद्योगों का वर्गीकरण

**1.8.1** केंद्रीय उत्पाद वर्गीकरण (CPC) संयुक्त राष्ट्र संघ द्वारा लागू आर्थिक वर्गीकरण की अंतरराष्ट्रीय प्रणाली के अंतर्गत सभी उत्पाद वर्गीकरण के संदर्भ के रूप में कार्य करती है। यह एक पूर्ण उत्पाद वर्गीकरण है जिसमें SNA फ्रेमवर्क के तहत उत्पाद की परिभाषा के अनुरूप वस्तुएं एवं सेवाएं शामिल हैं। विनिर्माण क्षेत्र के लिए राष्ट्रीय उत्पाद वर्गीकरण (एन.पी.सी.एम.एस), 2011, जो औद्योगिक सांख्यिकी स्कंध, कोलकाता द्वारा विकसित एक 7-अंकीय उत्पाद वर्गीकरण है, सी.पी.सी. के अनुच्छेद 0 से 4, संस्करण-2.0 पर आधारित है, जिसका संबंध विनिर्माण क्षेत्र के उत्पादों से है। एन.पी.सी.एम.एस-2011 कोडों का प्रयोग उ.वा.स. 2010-11 से 2014-15 तक के उ.वा.स. अनुसूची के 'एच', 'आई' व 'जे' ब्लॉक में स्थित निवेश निर्गम मदों को दर्ज करने के लिए किया गया है। उ.वा.स. 2015-16 में, एन.पी.सी.एम.एस, 2011 का संशोधित संस्करण उ.वा.स. में संग्रहित निवेश निर्गम मदों को वर्गीकृत करने में किया जाता है।

**1.8.2** उ.वा.स 1973-74 से उ.वा.स. 1988-89 तक कारखानों के आर्थिक क्रिया कलापों के वर्गीकरण के लिए एन.आई.सी-1970 का अनुसरण किया गया था। उस समय एन.आई.सी-1987 को चालू किया गया था जिसका उ.वा.स. 1997-98 तक अनुसरण किया गया। उ.वा.स. 1998-99 से उ.वा.स. 2003-04 तक एन.आई.सी-1998 का अनुसरण किया गया था। उ.वा.स. 2004-05 से वर्गीकरण की नई श्रेणी अर्थात् एन.आई.सी-2004 चालू की गई और इसे ही उ.वा.स. 2007-08 तक प्रयोग में लाया गया। उ.वा.स. 2008-09 से एन.आई.सी-2008 चालू किया गया। यह उ.वा.स. फ्रेम के सभी कारखानों को उनके द्वारा विनिर्मित मुख्य उत्पाद के मूल्य के आधार पर समुचित उद्योग समूहों के रूप में वर्गीकृत करती है। इस पद्धति से कोई इकाई किसी एक उद्योग समूह में केवल एक ही बार वर्गीकृत की जाती है, चाहे उक्त इकाई द्वारा विभिन्न उद्योग समूहों से संबंधित उत्पादों का विनिर्माण क्यों न किया जा रहा हो। इस रिपोर्ट में प्रस्तुत विभिन्न समूहों के प्राक्कलन दो या तीन या चार अंकीय स्तर के उद्योग एन.आई.सी 2008 वर्गीकरण से मेल खाते हैं। 2-अंकीय एन.आई.सी. विभाजन 10-33, 38 व 58 के सभी कारखानों और एन.आई.सी.-2008 के उप-वर्ग 01632, 01640 एवं 08932 और अन्य कारखानों (सारणी 0.क में सूचीकृत) भी उ.वा.स. 2018-19 में शामिल हैं। इस प्रकाशन के लिए सारणी 0.क उद्योगों के वर्गीकरण को वृहत् श्रेणी में दर्शाती है।



## सारणी 0.क : वृहत श्रेणी में उद्योगों का वर्गीकरण

एन.आई.सी-08	वृहत श्रेणी का नाम
10-33, 38 व 58	चुनिन्दा विनिर्माण
35 व 36	विद्युत, गैस, जलापूर्ति
01: 01632 (कपास जिनिंग, सफाई व गट्टे में बांधना), 01640 (प्रजनन हेतु बीज प्रक्रमण),	अन्य
08:08932 (समुद्री जल अथवा अन्य खारे जल के वाष्पीकरण द्वारा नमक उत्पादन)	
3700 (निकासी)	
4520 (मोटर वाहनों की मरम्मत व रख-रखाव)	
4540 (मोटर साईकिल व इनसे जुड़े अवयवों की बिक्री रख-रखाव व मरम्मत)	
5210 (मालगोदाम व भंडारण)	
5911 (चलचित्र, विडियो और दूरदर्शन कार्यक्रमों के निर्माण संबंधी गतिविधियाँ)	
5912 (चलचित्र, विडियो और दूरदर्शन कार्यक्रमों की तैयार होने के बाद की गतिविधियाँ)	
5913 (चलचित्र, विडियो और दूरदर्शन कार्यक्रमों की तैयार होने के वितरण संबंधी गतिविधियाँ)	
5920 (ध्वनि रिकार्डिंग व संगीत प्रकाशन गतिविधियाँ)	
7420 (फोटोग्राफी संबंधी गतिविधियाँ)	
8292 (पैकेजिंग गतिविधियाँ)	
95 (कंप्यूटर एवं अन्य घरेलू सामान की मरम्मत)	
9601 (वस्त्रों एवं रोएं से निर्मित सामानों की धुलाई व निर्जल धुलाई)	

## 1.9 उ.वा.स. 2018-2019 में कतिपय मापदंडों की परिभाषा एवं संगणना में परिवर्तन

1.9.1 एसएनए 2008 में प्रयोग की गई परिभाषाओं के अनुसार उ.वा.स प्राक्कलन को अधिक संगत बनाने के उद्देश्य से, उ.वा.स. 2018-2019 के उ.वा.स. में आउटपुट, इनपुट, सकल एवं निवल वर्धित मूल्य, प्रदत्त किराया, प्राप्त किराया, नेट फिक्स्ड कैपिटल फौरमेशन (एनएफसीएफ), ग्रास फिक्स्ड कैपिटल फौरमेशन(जीएफसीएफ), ग्रास कैपिटल फौरमेशन( जीसीएफ), निवल आय एवं निवल लाभ की परिभाषा एवं संगणना में कुछ परिवर्तन किए गए हैं। तथापि, विगत वर्षों के प्रकाशित आंकड़ों को संशोधित नहीं किया गया है। सारणी 0.ख, अखिल भारतीय स्तर पर उ.वा.स. 2018-2019 के परिणामों की संगणना में इन परिवर्तनों का प्रभाव दर्शाती है। उ.वा.स. 2018-2019 के अंतिम परिणामों में निम्नलिखित परिवर्तनों को दर्शाया गया है।

- भवन के लिए भुगतान किया गया किराया (ब्लॉक- एफ, मद 8), जो पूर्व में प्रदत्त किराया की संगणना में सम्मिलित था, को वर्तमान में मध्यवर्ती उपभोग या इनपुट की संगणना में सम्मिलित किया गया है और प्रदत्त किराया के प्राक्कलन से निकाल दिया गया है।
- अब से प्रदत्त किराया में केवल भूमि पट्टा या खान, क्वॉरीज़ और ऐसे ही अन्य (उत्पाद रहित) आस्तियों (ब्लॉक-एफ, मद 9) पर रॉयल्टी के लिए प्रदत्त किराया को ही शामिल किया जाएगा।
- भवन के लिए प्राप्त किराया (ब्लॉक- जी, मद 8), जो पूर्व में प्राप्त किराया की संगणना में सम्मिलित था, को वर्तमान में आउटपुट की संगणना में सम्मिलित किया गया है और प्राप्त किराया के प्राक्कलन से निकाल दिया गया है।
- अब से प्राप्त किराया में केवल भूमि पट्टा या खान, क्वॉरीज़ और ऐसे ही अन्य (उत्पाद रहित) आस्तियों (ब्लॉक-जी, मद 9) पर रॉयल्टी के लिए प्राप्त किराया को ही शामिल किया जाएगा।

- जबकि अनुसंधान एवं विकास (ब्लॉक- एफ, मद 7) में व्यय की गयी राशि पहले से ही इनपुट का भाग है, वर्तमान में अनुसंधान एवं विकास (ब्लॉक- एफ, मद 7) में व्यय की गयी राशि के समान राशि को आउटपुट के साथ-साथ कैपिटल फ़ौरमेशन (एनएफ़सीएफ़, जीएफ़सीएफ़, जीसीएफ़) में भी शामिल कर लिया गया है।
- सकल वर्धित मूल्य (जीवीए) और निवल वर्धित मूल्य (एनवीए) की संगणना अब यथोपरोक्त आउटपुट एवं इनपुट की संशोधित परिभाषा के आधार पर की जाएगी।
- उपरोक्त प्रदत्त किराया एवं एनवीए की नई परिभाषाओं के अनुसार अब से निवल आय की संगणना निवल वर्धित मूल्य से प्रदत्त किराया (ब्लॉक-एफ, मद 9) और प्रदत्त ब्याज (ब्लॉक-एफ, मद 10) को घटाकर की जाएगी।
- अब से निवल आय की संगणना उपरोक्त यथापरिभाषित निवल आय से कर्मचारियों की क्षतिपूर्ति को घटाकर की जाएगी।

**सारणी 0.ख: उ.वा.स. 2018-2019 के प्राक्कलनों के परिकलन फार्मूला में परिवर्तन का प्रभाव एवं विगत वर्ष में अखिल भारतीय स्तर पर (वर्तमान कीमतों में) बढ़त**

सभी उद्योग	प्राक्कलित मूल्य (लाख रू में)			2017-18 की तुलना में बढ़त	
	2017-18	2018-19 (अंतिम) @	2018-19 (पुराने फॉर्मूला का प्रयोग करते हुए)	2018-19 (अंतिम) @	2018-19 (पुराने फॉर्मूला का प्रयोग करते हुए)
कुल आउटपुट	807217258	928179909	927070387	14.99	14.85
कुल इनपुट	660520215	774377980	772481098	17.24	16.95
सकल वर्धित मूल्य (जीवीए)	146697043	153801929	154589289	4.84	5.38
निवल वर्धित मूल्य (एनवीए)	122967419	127646638	128433998	3.81	4.45
प्रदत्त किराया	2147363	512545	2409427	-76.13	12.2
प्राप्त किराया	356645	96877	465719	-72.84	30.58
नेट फ़िक्स्ड कैपिटल फ़ौरमेशन (एनएफ़सीएफ़)	7539180	8310576	7569896	10.23	0.41
ग्रौस फ़िक्स्ड कैपिटल फ़ौरमेशन(जीएफ़सीएफ़)	31268804	34465867	33725187	10.22	7.86
ग्रौस कैपिटल फ़ौरमेशन (जीसीएफ़)	41461836	48711844	47971164	17.49	15.7
निवल आय	105078789	107790379	110200219	2.58	4.87
निवल लाभ	57624246	55652260	58062100	-3.42	0.76

@2018-19 का अंतिम डाटा संशोधित फॉर्मूला के आधार पर तैयार किया गया है।

## 1.10 प्रकाशन एवं प्रतिबंध

**1.10.1** इस प्रकाशन में दिए गए परिणाम क्षे.सं.प्र., राष्ट्रीय सांख्यिकी कार्यालय(NSO) द्वारा संग्रहित और औ.सां.स्कंध, डाटा क्वालिटी एश्योरेंस डिविजन(DQAD), राष्ट्रीय सांख्यिकी कार्यालय (NSO) द्वारा संसाधित केंद्रीय प्रतिदर्श डाटा पर आधारित होते हैं। उ.वा.स. 2018-2019 के परिणाम अखिल भारतीय स्तर में NIC-2008 के 2/3/4-अंकीय स्तर पर तथा राज्यों/संघ राज्य क्षेत्रों के स्तर के लिए NIC-2008 के 2/3-अंकीय स्तर पर जारी किए जाते हैं। जबकि खंड-I अचल पूंजी तथा वर्धित मूल्य, रोजगार तथा मजदूर लागत, खपत इंधन आदि की सारणी से संबंधित हैं, वहीं खंड-II में 3-अंकीय NIC राज्यवार खपत माल के साथ-साथ कारखानों द्वारा उत्पन्न उत्पाद और उपोत्पाद शामिल हैं। इन निवेश निर्गम मदों को विनिर्माण क्षेत्र (NPCMS), 2011(संशोधित) के लिए राष्ट्रीय उत्पाद वर्गीकरण के अनुसार वर्गीकृत किया जाता है। इनके अतिरिक्त, दूसरा प्रकाशन, यथा- फैक्टरी क्षेत्र के सारांश परिणाम अखिल भारतीय/संघ राज्य क्षेत्रों व NIC-2008 के 2-अंकीय स्तर के मुख्य अभिलक्षणों पर विशेष सारणियों के माध्यम से उ.वा.स परिणामों का सारांश दृश्य देने के उद्देश्य से तैयार किया जाता है। यह महत्वपूर्ण अभिलक्षणों जैसे रोजगार का आकार, पूंजी, सकल उत्पाद, निवल वर्धित मूल्य द्वारा कारखानों के वितरण को दर्शाता है।

**1.10.2** सांख्यिकी संग्रहण अधिनियम, 2008 के अनुसार अलग-अलग कारखानों का डाटा बताना निषिद्ध है। अतः अगर किसी राज्य में (एन.आई.सी-2008 के 2-अंकीय/3-अंकीय स्तर) के किसी उद्योग के अंतर्गत कारखानों की संख्या तीन से कम हो, तो संबंधित स्टैटम के ऐसे सभी इकाईयों की पहचान छुपाने के लिए डाटा को समरूपी उद्योग से मिला दिया गया है। इसी तरह यदि अखिल भारतीय स्तर पर एन.आई.सी 4-अंकीय/3-अंकीय स्तर के अंतर्गत इकाईयों की संख्या तीन से कम है, तो उद्योग को उसी वृहत उद्योग समूह के अंतर्गत समरूपी उद्योग में विलयित कर दिया गया है।

**1.10.3** सभी प्राक्कलन, विशेषतः किसी विशेष उपभुक्त व उत्पादित मद की मात्रा और 'वैल्यू' आंकड़े के लिए सांख्यिकीय चूकों के अध्यधीन है क्योंकि इनका प्राक्कलन किसी चयनित प्रतिदर्श के आधार पर किया जाता है। अवलोकन की संख्या अपर्याप्त होने वाले वस्तुओं के लिए उपभोग तथा उत्पादन का प्राक्कलन पृथक रूप से नहीं किया जाता है। उन्हें 'अन्य' के अंतर्गत दर्शाया जाता है क्योंकि ऐसे मदों के प्राक्कलन संगत नहीं भी हो सकते हैं।

**1.10.4** सारणीयन नीति के तहत एनआईसी-2008 के अनुसरण में विस्तृत सूचना का प्रकाशन उद्योग कोड 01,08,10 से 33, 38 व 58 के अनुरूप करने का निर्णय लिया गया है। उ.वा.स. विस्तार के अंतर्गत अन्य सभी उद्योग कोडों के लिए इकाईयों को एक साथ मिलाया गया है और उन्हें एक सामान्य उद्योग 'अन्य' के अंतर्गत विभिन्न सारणियों में दर्शाया गया है।

**1.10.5** अन्य उल्लेखनीय बिन्दु यह है कि 'डिसएग्रीगेट' स्तर पर इस रिपोर्ट में दिखाए गए कुछ मापदण्डों में दर और अनुपात, मुख्यतः छोटे राज्यों व संघ राज्य क्षेत्रों के लिए, जो क्रियात्मकता वर्गीकरण 2/3/4-अंकीय स्तर द्वारा वर्गीकृत हैं, छोटे प्रतिदर्श आकार की सीमा के अध्यधीन हैं और इस प्रकार प्रयोगकर्ता समय के अनुसार इन मापदण्डों के आकार तथा बदलाव की व्याख्या कर सकते हैं।

**1.10.6** किन्हीं निश्चित मामलों में, कुछ अभिलक्षणों में, पिछले वर्ष की तुलना में असामान्य बढ़त/गिरावट हो सकते हैं, उसके संभावित कारण निम्नलिखित हैं:-

(क) फ्रेम में, मुख्यतः गणना क्षेत्रों में नई इकाईयों का समावेश।

(ख) गुणकों के पर्याप्त मूल्य रखने वाले कुछ प्रतिदर्श इकाईयों का चयन/अचयन।

(ग) गणना इकाईयों का बंद/अप्रचालन में होना, जिनका पिछले वर्ष अर्थव्यवस्था पर काफी प्रभाव था।

(घ) पिछले वर्ष के गणना इकाईयों का वर्तमान वर्ष की गणना इकाईयों में चले जाना जो कि नियोजन के आकार या प्रतिदर्श नीति या दोनों पर निर्भर करता है, और एक दूसरे के विपरीत है।

(ड.) पिछले वर्ष के उच्च/निम्न कार्यनिष्पादन की तुलना में वर्तमान वर्ष में इकाईयों का उच्च निम्न कार्य निष्पादन।

(च) कतिपय मापदंडों के परिकलन फार्मूला में परिवर्तन।



## 1. INTRODUCTION

### 1.1 Scope and Coverage

**1.1.1** Annual Survey of Industries (ASI) has been conducted since 1959 under the Collection of Statistics Act, 1953. Presently, the survey is being conducted under the Collection of Statistics Act, 2008 as amended in 2017 and Rules framed there under in 2011. The Survey is designed to obtain comprehensive and detailed data with the objective of estimating the contribution of registered manufacturing sector as a whole to Gross Domestic Product of the Country and also by type of industry, systematic study of the structure of the industries by type of industry, study of the various factors influencing the industries for formulation of industrial policies. A copy of the above Act and the Rules made there under is given in *Annexure-I*.

**1.1.2** Coverage of the Annual Survey of Industries extends to the entire Factory Sector comprising industrial units (called factories) registered under the Sections 2(m)(i) and 2(m)(ii) of the Factories Act, 1948, wherein a 'Factory', which is the primary statistical unit of enumeration for the ASI, is defined as:

'Any premises' including the precincts thereof: -

- i. Wherein ten or more workers are working or were working on any day of the preceding twelve months, and in any part of which a manufacturing process is being carried on with the aid of power or is ordinarily so carried on, or,
- ii. Wherein twenty or more workers are working or were working on any day of the preceding twelve months, and in any part of which a manufacturing process is being carried on without the aid of power or is ordinarily so carried on, but does not include a mine subject to the operation of the Mines Act, 1952, or a railway running shed.

The 'manufacturing process' referred to above has been defined [vide Section 2(k)] in the Factories Act, 1948 as:

'Any process' for

- i. making, altering, ornamenting, finishing, packing, oiling, washing, cleaning, breaking up, demolishing or otherwise treating or adapting any article or substance with a view to its use, sale, transport, delivery or disposal; or,
- ii. pumping oil, water or sewage ; or,
- iii. generating , transforming or transmitting power; or,
- iv. composing types for printing by letter press, lithography, photogravure or other similar process or book binding; or,
- v. constructing, reconstructing, repairing, refitting, finishing or breaking up ships or vessels; or
- vi. preserving or storing any article in cold storage.

**1.1.3** In addition to Sections 2(m)(i) & 2(m)(ii) of the Factories Act, 1948, bidi & cigar units, employing 10 or more workers with the aid of power and 20 or more workers without the aid of power and registered under the Bidi & Cigar Workers (Conditions of Employment) Act, 1966 are also covered in ASI. All electricity undertakings engaged in generation, transmission and distribution of electricity, not registered with the Central Electricity Authority (CEA) are also covered under ASI.

**1.1.4** Starting from ASI 2014-15, the coverage of ASI has been extended beyond the Section 2m (i) and 2m (ii) of the Factories Act, 1948. To start with, the units with 100 or more employees, not registered under Section 2m (i) and 2m (ii) of the Factories Act, 1948 but registered under any of the seven Acts / Board / Authority viz., Companies Act. 1956, Factories Act. 1948, Shops and Commercial Establishment Act, Societies Registration Act, Cooperative Societies Act, Khadi and Village Industries Board, Directorate of Industries (District Industries Centre) in the Business Register of Establishments (BRE) as prepared by the State Governments and verified by Field Operations Division (FOD) of National Statistical Office(NSO) are also considered for selection.

**1.1.5** Although the scope of ASI extends to all registered manufacturing establishments in the country, defence establishments, oil storage and distribution depots, restaurants, hotels, café and computer services, departmental units such as railway workshops, RTC workshops, Govt. Mints, sanitary, water supply, gas storage units etc. are excluded from the purview of the Survey. The Survey is conducted annually under the statutory provisions of the Collection of Statistics Act 2008, as amended in 2017 and the Rules framed there-under in 2011. The geographical coverage of the Annual Survey of Industries 2018-2019 has been extended to the entire country.

## **1.2 Unit of Enumeration**

**1.2.1** The primary unit of enumeration in the survey is a factory in the case of manufacturing industries, a workshop in the case of repair services, an undertaking or a licensee in the case of electricity, gas and water supply undertakings and an establishment in the case of bidi and cigar industries. The owner of two or more establishments located in the same state and pertaining to the same industry group, however, is permitted to furnish a single consolidated return, termed as 'Joint Return'. Such consolidated returns are a common feature in case of some of the factories in ASI.

## **1.3 ASI Frame**

**1.3.1** ASI frame is based on the lists of registered factories/units maintained by the Chief Inspector of Factories (CIF) in respective States and those maintained by registration authorities in respect of bidi and cigar establishments. The frame is being revised and updated annually by the Regional Offices of the Field Operations Division (FOD) of NSO in consultation with the Chief Inspector of Factories in each State. At the time of revision, the names of the de-registered factories are removed from the ASI frame and those of the newly registered factories are added. While updating the frame, only newly registered units are added to the existing frame. In spite of regular updating of the frame, quite a number of factories selected for the survey are getting deleted during the survey owing to various reasons like non-existence, de-registration, out of coverage etc.

**1.3.2** It is to be noted that apart from the factories in operation, the ASI frame comprises of factories which are categorised as '*Existing with fixed assets and maintaining staff but not having production*' and '*Existing with fixed assets but not maintaining staff and not having production*' as defined in paragraph 1.6.2.

## **1.4 Reference Period**

**1.4.1** Reference period for ASI 2018-2019 was the accounting year of the factory, ending on any day during the financial year 2018-2019. Thus in ASI 2018-2019, data collected from establishments relate to their respective accounting years that ended on any day between 1st April 2018 and 31st March 2019. Survey was conducted during November, 2019 to November, 2020.

## 1.5 *Sample Design and Sample Allocation*

**1.5.1** As per sampling design adopted in ASI 2018-2019, ASI sample comprises of two parts – Central Sample and State Sample. The Central Sample consists of two schemes: Census and Sample. Under Census scheme, all the units are surveyed.

**1.5.2 Census Scheme:** Census scheme consists of the following units:

- (a) All industrial units belonging to the seven less industrially developed states/ UT's viz. Arunachal Pradesh, Manipur, Meghalaya, Nagaland, Sikkim, Tripura and Andaman & Nicobar Islands.
- (b) All industrial units belonging to frame NIC=0893 (salt extraction)
- (c) For the States/ UTs other than those mentioned in (a),
  - (i) units having 75 or more employees from six States, namely, Jammu & Kashmir, Himachal Pradesh, Rajasthan, Bihar, Chhattisgarh and Kerala;
  - (ii) units having 50 or more employees from three States/UTs, namely, Chandigarh, Delhi and Puducherry;
  - (iii) units having 100 or more employees for rest of the States/UTs, not mentioned in (i) and (ii) above and;
  - (iv) all units covered under 'Joint Return' (JR), where JR is allowed when the two or more units located in the same State/UT belonging to the same industry (3-digit level of NIC) under the same management.
- (d) After excluding the Census Sector units as defined in paragraphs (a), (b) and (c) above, the strata are formed at State × District × Sector × 3-digit of NIC-2008 level. Here, 'sector' is very broad economic activity group consisting of manufacturing, electricity generation activity and *bidi* producing activity. Thus, in short, sectors are (i) Bidi, (ii) Manufacturing and (iii) Electricity. All units belonging to the strata (i.e., formed on the basis of units in *State by District by Sector by 3-digit of NIC-08*) having less than or equal to 4 units are completely enumerated and are thus considered as 'census sector' units.

**(e) Sample scheme:**

All the remaining units in the frame are considered under **Sample Scheme**. For all the states, **strata are formed for each State x District x Sector x 3-digit NIC-2008 factories**. The units in each stratum are arranged in descending order of their number of employees. Samples are drawn as per Circular Systematic Sampling technique. An even number of units with a minimum of 4 units are selected and distributed in four sub-samples. It may be noted that all the 4 sub-samples from a particular stratum may not have equal number of units.

- (f) Out of these 4 sub-samples, two pre-assigned sub-samples are given to NSO (FOD) and the other two-subsamples are given to State/UT for data collection.
- (g) The entire census units *plus* all the units belonging to the two sub-samples given to NSO (FOD) are treated as the **Central Sample**.

- (h) The units belonging to the two sub-samples allocated to States/UTs are to be canvassed by the respective States/UTs. Hence, State/UT has to use the data (collected by NSO (FOD) and processed by Industrial Statistics (IS) Wing, Data Quality Assurance Division (DQAD), NSO) along with the state sample data while deriving the district level estimates for their respective State/UT.
- (i) The entire census scheme units *plus* all the units belonging to the two sub-samples given to NSO (FOD) *plus* all the units belonging to the two sub-samples given to State/UT are required for pooling of Central and State Samples.

**1.5.3** It may be noted that samples have been drawn considering an overall sampling fraction of 10.5% from all strata. The size of the live frame containing units with status 'Open', 'Existing with fixed assets and maintaining staff but not having production' and 'Existing with fixed assets but not maintaining staff and not having production' was 2,44,147. Of these, 54,273 units belonged to the Census Sector, while the remaining 1,89,874 units formed the Sample Sector. Total sample size for ASI 2018-2019 was 77,919 (54,273 Census and 23,646 Sample) units.

## **1.6** *Estimation Procedure*

**1.6.1** The procedures for estimation of the characteristics are shown in *Annexure-II*.

**1.6.2** For some selected units, it is found during the survey that the unit existed in the given location and had engaged some employees during the reference period, but could not initiate production or did not produce anything during the reference period due to various reasons, and can take up production any moment once the problems are sorted out. These units, for the purpose of the survey, are considered as existing with fixed assets and maintaining staff but not having production and similarly placed with other surveyed units (i.e., units for which the relevant information could be collected) in respect of all parameters, such as, assets, employment, etc. There are some other units which existed in the given location, but did not engage any employee during the reference period, and also, did not initiate production or produce anything during the reference period. These units, for the purpose of ASI, are considered as existing with fixed assets but not maintaining staff and not having production, during the reference period. Moreover, as a matter of practice, these units are maintained in the frame for consecutive three years and are meant for selection for survey with the consideration that these units might start production any time employing some workers. In case, however, any such unit is found to be existing with fixed assets but not maintaining staff and not having production for consecutive three years, it is assumed to be dead and marked deleted from the frame and thus, from the survey. It is important to note that in providing the estimated number of units (factories) for the reference period, these units are also similarly placed with other surveyed units, in the usual manner, in estimating the parameters presented in this report.

**1.6.3** The results presented in the publication are based on the central sample data collected by FOD, NSO and processed by IS Wing, DQAD, NSO. Moreover, all the estimated value figures given in this publication are reported at current prices. The value figures are generally rounded off to thousand rupees or lakhs of rupees. All India figures are rounded off separately and may not tally with the sum of State/UT's figures. Similarly, all-Industry figures may not tally with the sum of individual industry figures for the same reason. Also the industry-wise totals at lower level may not tally with the next higher level due to merging of industries carried out at different levels (Para 1.10.2).

## 1.7 *Schedule of Enquiry*

**1.7.1** The schedule for ASI 2018-2019 has two parts. Part-I which is processed at IS Wing, DQAD, NSO, aims to collect data on fixed assets and liabilities, employment and labour cost, sundry receipts, sundry expenses, materials consumed– indigenous and imported, products and by-products manufactured, distributive expenses etc. Part-II, which is processed by the Labour Bureau, aims to collect data on different aspects of labour statistics, namely, working days, mandays worked, absenteeism, labour turnover, man-hours worked, earning and social security benefits.

**1.7.2** A copy of the ASI 2018-2019 schedule is given as *Annexure –III*. The different concepts and definitions used in ASI survey are given in *Annexure-IV*.

## 1.8 *Classification of Industries*

**1.8.1** Central Product Classification (CPC) serves as the reference classification for all product classifications within the international system of economic classifications put in place by the United Nations. It is a complete product classification covering all goods and services that follows the definition of products within the SNA framework. The National Product Classification for Manufacturing Sector (NPCMS), 2011, a 7-digit product classification developed by IS Wing, Kolkata is based on Sections 0 to 4 of CPC, Version 2.0 that relate to products of manufacturing sector. NPCMS-2011 codes have been used to record input & output items in Blocks H, I and J of ASI schedule from ASI 2010-11 to 2014-15. From ASI 2015-16 onwards, revised version of NPCMS, 2011 is used to classify input & output items collected in ASI.

**1.8.2** The NIC-1970 was followed to classify economic activities of the factories from ASI 1973-74 to ASI 1988-89. NIC-1987 had then been introduced and followed till ASI 1997-98. NIC-1998 was then followed from ASI 1998-99 to ASI 2003-04. From ASI 2004-05, a new series of classification, i.e., NIC-2004 has been introduced and the same has been used till ASI 2007-08. From ASI 2008-09, NIC-2008 has been introduced. It classifies all the factories in the ASI frame in their appropriate industry groups on the basis of the principal product manufactured. This way a unit gets classified in one and only one industry group even though it might be manufacturing products belonging to different industry groups. The estimates for different aggregates presented in this report at two or three or four digit level of industry correspond to NIC-2008 classification. All factories pertaining to 2-digit NIC divisions 10-33, 38 & 58 and sub-classes 01632, 01640 & 08932 of NIC-2008 and also other industries (listed in Table 0.A) are covered in ASI 2018-19. Table 0.A shows the classification of industries into broad categories for this publication.

**Table 0.A: Classification of Industries into Broad Categories**

<b>NIC-08</b>	<b>Name of Broad Category</b>
10-33, 38 and 58	Selected Manufacturing
35 and 36	Electricity, Gas, Water Supply
01: 01632(Cotton ginning, cleaning and bailing); 01640(Seed processing for propagation)	Others
08: 08932 (Salt production by evaporation of sea water or other saline waters)	
3700 (Sewerage)	
4520 (Maintenance and repair of motor vehicles)	
4540 (Sale, maintenance and repair of motorcycles and related parts & accessories)	
5210 (Warehousing and storage)	
5911 (Motion picture, video and television programme production activities)	
5912 (Motion picture, video and television programme post-production activities)	
5913 (Motion picture, video and television programme distribution activities)	
5920 (Sound recording and music publishing activities)	
7420 (Photographic activities)	
8292 (Packaging activities)	
95 (Repair of computers and personal and household goods)	
9601 (Washing and (dry-) cleaning of textile and fur products)	

## **1.9 Change in definition and calculation of a few parameters in ASI 2018-19**

**1.9.1** In order to make the ASI estimates more consistent with the definitions used in SNA 2008, some changes in the definition and calculation of Output, Input, Gross and Net Value Added, Rent paid, Rent Received, Net Fixed Capital Formation (NFCF), Gross Fixed Capital Formation (GFCF), Gross Capital Formation (GCF), Net Income and Net Profit in ASI have been made from ASI 2018-19. However, the published figures of earlier years have not been revised. Table 0.B shows the impact of these changes in the calculation in the results of ASI 2018-19 at all India level. The following changes have been effected in the final results of ASI 2018-19:

- Rent paid for buildings (Block-F, item 8) which was earlier included in calculation of Rent Paid is now included in calculation of intermediate consumption or input and excluded from estimates of Rent paid.
- Rent paid would now include Rent paid for land on lease or royalties on mines, quarries and similar (non-produced) assets (Block-F, item 9) only.
- Rent received for buildings (Block-G, item 8) which was earlier included in calculation of Rent Received is now included in calculation of output and excluded from estimates of Rent received.
- Rent received would now include Rent received for land on lease or royalties on mines, quarries and similar (non-produced) assets (Block-G, item 9) only.
- While Expenses in Research & Development (Block F, item 7) is already a part of input, an amount equal to Expenses in Research & Development (Block F, item 7) is now included in calculation of output as also in capital formation (NFCF, GFCF, GCF).
- Gross Value Added (GVA) and Net Value Added (NVA) are now calculated based on the revised definition of Output and Input as defined above.
- Net Income is now calculated by deducting Rent paid (Block-F, item 9) and Interest paid (Block-F, item 10) from Net Value Added as per the new definitions of rent paid and NVA given above.
- Net Profit is now calculated by deducting compensation of employees from Net Income as defined above



**Table 0.B: Impact of change in computation formulae in the estimates of ASI 2018-19 and growth (in current prices) over last year at all-India Level**

<i>ALL INDUSTRIES</i>	<i>Estimated Value (Rs. Lakh)</i>			<i>Growth over 2017-18</i>	
	<i>2017-18</i>	<i>2018-19 (Final)@</i>	<i>2018-19 (using old formulae)</i>	<i>2018-19 (Final)@</i>	<i>2018-19 (using old formulae)</i>
Total Output	807217258	928179909	927070387	14.99	14.85
Total Input	660520215	774377980	772481098	17.24	16.95
Gross Value Added (GVA)	146697043	153801929	154589289	4.84	5.38
Net Value Added (NVA)	122967419	127646638	128433998	3.81	4.45
Rent Paid	2147363	512545	2409427	-76.13	12.2
Rent Received	356645	96877	465719	-72.84	30.58
Net Fixed Capital Formation (NFCF)	7539180	8310576	7569896	10.23	0.41
Gross Fixed Capital Formation (GFCF)	31268804	34465867	33725187	10.22	7.86
Gross Capital Formation (GCF)	41461836	48711844	47971164	17.49	15.7
Net Income	105078789	107790379	110200219	2.58	4.87
Net Profit	57624246	55652260	58062100	-3.42	0.76

@ 2018-19 final data have been prepared based on revised formulae

### 1.10 Publications and Limitations

**1.10.1** The results presented in this publication are based on the central sample data collected by FOD, NSO and processed by IS Wing, DQAD, NSO. The results of ASI 2018-2019 are released at 2/3/4-digit level of NIC-2008 for all-India and at 2/3-digit level of NIC-2008 for States/UTs. While Volume-I contains tables related to fixed capitals and value added, employment and labour cost, fuels consumed etc., Volume-II contains NIC 3-digit by state-wise materials consumed as well as products & by-products generated by the factories. These input/output items are classified as per National Product Classification for Manufacturing Sector (NPC-MS), 2011(Revised). In addition to these, another publication viz. Summary Results for Factory Sector is prepared with a focus to give a summary view of ASI results through special tables on principal characteristics at All India and State/UTs and at 2-digit level of NIC-2008. It also gives the distribution of factories by important characteristics such as size of employment, capital, gross output and net value added.

**1.10.2** The Collection of Statistics Act, 2008 prohibits disclosure of data relating to individual factories. Therefore, if the number of factories under any industry (2-digit/3-digit level of NIC-2008) in a state is less than three, the data have been combined to a similar industry in order to conceal the identity of all such units belonging to the concerned stratum. A list of such merged industries is given in **Annexure-VI**. Similarly, if number of units under any 4-digit/3-digit level of NIC at All-India level is less than three, the industry has been merged to a similar industry under the same broad industry group.

**1.10.3** All the estimates, especially for quantity and value figures for any particular item consumed and produced, are subject to Statistical Errors as these are estimated on the basis of a selected sample. The consumptions and productions are not estimated separately for those items for which the number of observations is insufficient. They have been reported under 'others' as the estimates for those items may not be efficient.

**1.10.4** As per tabulation policy it has been decided to publish the detailed information corresponding to industry codes 01, 08, 10 to 33, 38 and 58 following NIC-2008. For all other industry codes under ASI coverage, the units have been clubbed and shown under a common industry '**Other**' in different tables.

**1.10.5** Another important point to be noted is that the rates and ratios of some parameters represented in this report at the disaggregate level, particularly for the smaller States and UTs cross classified by 2/3/4-digit level of industry classification, are subject to the limitation of small sample sizes and thus, the user may cautiously interpret the changes of these parameters over time.

**1.10.6** In certain cases, there may be abnormal growth/decline in some characteristics compared to the previous year. The possible reasons for the same are as follows:

- a. Inclusion of new units in the frame, particularly in the Census Sector.
- b. Selection/non-selection of some sample units, having considerable value of multiplier attached to it.
- c. Closure/Non-Operation of units, which had the significant effect on the economy in the previous year.
- d. Movement of Sample units in the previous year to Census units in the current year, depending either on the size of employment or due to the sampling strategy or both, and vice-versa.
- e. High/low performance of the units in the current year, as compared to its performance in the previous year due to various reasons.
- f. Change in computation formulae of a few parameters.

## 2. कारखानों की संख्या की प्राक्कलन प्रक्रियाएँ

**2.1** उ.वा.स. में स्टेटस कोड '1', '2' और '3' इकाइयों अर्थार्थ, क्रमशः 'खुला', 'अचल आस्तियां एवं मेंटनिंग स्टाफ सहित विद्यमान परंतु उत्पादन रहित', 'अचल आस्तियां सहित विद्यमान परंतु मेंटनिंग स्टाफ व उत्पादन रहित' वाले फ्रेम से प्रतिदर्श निकाले जाते हैं, - इसका कारण यह है कि इन्हें इस कार्यक्षेत्र में जीवित इकाई समझा जाता है और इनमें से कुछ का संदर्भ अवधि के दौरान प्रचालन किया गया है और कुछ अन्य अतीत में निरन्तर उत्पादन कर रहे थे परंतु किन्हीं निश्चित कारणों से उन्होंने संदर्भ अवधि के दौरान कुछ भी प्रचालन/उत्पादन नहीं किया है, परंतु वे सभी आस्तियों आदि के साथ मौजूद हैं और किसी भी समय उत्पादन प्रारंभ कर सकते हैं। इन सभी मामलों में यदि इकाइयों के लिए महत्वपूर्ण सूचना संग्रहित की जाती है, तो इन इकाइयों को 'सर्वेक्षित' समझा जाता है, अन्यथा इन्हें 'अप्रतिवेदित या कैजुअल्टी' माना जाता है। सारणी 1 गुणकों की गणना में 'इकाइयों की स्थिति' के विभिन्न मामलों दर्शाता है।

**2.2** विवरण 0क उ.वा.स. 2018-19 में (i) फ्रेम में (ii) चयनित और (iii) सर्वेक्षित राज्य/संघ राज्य-क्षेत्रवार कारखानों की संख्या दर्शाता है। इस सारणी में यह देखा जा सकता है कि 'सर्वेक्षित' मामलों में उपर वर्णित 'कैजुअल्टी' मामले शामिल नहीं हैं। विवरण 0ख एवं 0ग उ.वा.स. 2018-19 में सर्वेक्षण की स्थिति के अनुसार क्रमशः चयनित कारखानों की संख्या का पूर्ण और प्रतिशत वितरण दर्शाता है।

**2.3** विवरण 1क वर्ष 2018-19 में सर्वेक्षण की स्थिति के अनुसार प्राक्कलित कारखानों की संख्या (पूर्ण रूप में) दर्शाता है और विवरण 2क प्रत्येक राज्य/संघ राज्य क्षेत्र के लिए सर्वेक्षण की स्थिति अनुसार 'चालू कारखानों की संख्या' का प्राक्कलन (पूर्ण रूप में) पृथक रूप से दर्शाता है। यह नोट किया जा सकता है कि इस प्रकाशन में प्रस्तुत सभी दरें और अनुपात 'चालू कारखानों' से प्राप्त किए गए हैं। विवरण 1ख तथा 2ख में निजी प्रतिशतता का वितरण दिया गया है।

**2.4** विवरण 1क तथा 1ख से यह देखा जा सकता है कि सर्वेक्षण के दौरान, लगभग 45,250 कारखानों (18.67%) ने अपना स्टेटस कोड 4 प्रतिवेदित किया है। यह इस बात का संकेत देता है कि इन इकाइयों को 'इकाई का अस्तित्व न होने और मालिक का पता न लग पाना' या 'रजिष्ट्रेशन रद्द होने या विस्तार-क्षेत्र के बाहर होने के कारण इकाई का नाम हटा दिया जाना' आदि कारणों से फ्रेम में नहीं होना चाहिए था, और 'वेट' (गुणक) की गणना करने में ऐसी इकाइयों को 'जीरो' मामले माना जाता है। 2,42,395 प्राक्कलित 'कारखानों की संख्या' में से लगभग 1,94,228 (80.13%) कारखानों का स्टेटस कोड 1, 2 और 3 है और आदर्श रूप से केवल इन्हें ही वर्ष 2018-19 की अवधि के दौरान फ्रेम में मौजूद होना चाहिए था। इसके अतिरिक्त, केवल 2,917 कारखानों (1.20%) के संबंध में, जिन्होंने वर्तमान वर्ष में कोई डाटा नहीं दिया है (नन-रिस्पॉस), डाटा पिछले वर्ष से अध्यारोपित किया जा सकता है। स्टेटस कोड 1, 2 व 3 वाले इकाइयों और पिछले वर्ष से अध्यारोपित की जाने वाली इकाइयों, को 'चालू इकाई' समझा जाता है और उनका प्रयोग उ.वा.स. 2018-19 पर आधारित रिपोर्टों में दिये गए सभी प्राक्कलों, दरों और अनुपातों की गणना में होता है, जब तक कि अन्यथा उल्लिखित न हो।

### सारणी 1 : सर्वेक्षित मामलों, जीरो मामलों और कैजुअल्टी मामलों के लिए निरूपण

कोड	गुणक की गणना का निरूपण
1,2,3	यदि केवल इकाई के लिए संगत महत्वपूर्ण सूचना उपलब्ध हो तो 'खुला' तथा 'चालू' मामला समझा जाता है। अन्यथा 'नन-रिस्पॉस (कैजुअल्टी)' माना जाता है।
4	सभी मापदंडों के लिए 'जीरो केस' माना जाता है।
5,7,8	'नन-रिस्पॉस (कैजुअल्टी)' माना जाता है।

## **2. Procedures for Estimating the Number of Factories**

**2.1** In ASI, samples are drawn from the frame containing units with status codes '1', '2' and '3', that is, 'Open', 'Existing with fixed assets and maintaining staff but not having production' and 'Existing with fixed assets but not maintaining staff and not having production' units respectively – the reason being that these are considered as the live units in the domain and some have operated during the reference period, and some others have continued to produce in the past, but for certain reasons did not operate/produce anything during the reference period but exist with all assets, etc and may start producing any moment. In all these cases, the units are considered as 'surveyed' if essential information for the unit is collected, else they are treated as 'Non-reported' or 'casualty'. Table 1 gives the treatment of various cases of 'status of units' in the calculation of multiplier.

**2.2** Statement 0A gives the State/UT-wise number of factories (i) in Frame, (ii) selected and (iii) surveyed in ASI 2018-19. It may be noted in this table that the 'surveyed' cases exclude all the casualty cases as explained above. Statement 0B and 0C respectively gives the absolute and percentage distribution of the number of selected factories by the status of the survey for ASI 2018-19.

**2.3** Statement 1A gives the estimated 'number of factories' (in absolute terms) in 2018-19 by the status of the survey, and Statement 2A displays the estimated 'number of factories in operation' (in absolute terms) by the status of the survey separately for each State/UT. It may be noted that all the rates and ratios, presented in this publication, are derived per 'factories in operation'. The respective percentage distributions are given in Statements 1B and 2B.

**2.4** It may be seen from Statements 1A and 1B that during the survey, about 45,250 factories (18.67%) reported their status code 4. This indicates that these units should not have been present in the frame for the reasons like 'non-existence of unit and owner not traceable' or 'unit deleted due to de-registration or out of coverage', etc., and such units are treated as 'zero' cases in calculating the weights (multipliers). Of the estimated 2,42,395 'number of factories', about 1,94,228 factories (80.13%) are with status codes 1, 2 and 3 and ideally, only they should have been present in the frame during the period 2018-19. Further, data could be imputed from last year in respect of only 2,917 factories (1.20%), which did not provide any data in the current year (Non-response). Units with status codes 1,2 and 3 and those imputed from last year are considered as 'operating units' and used in calculating all estimates, rates and ratios in the reports based on ASI 2018-19 data unless otherwise mentioned.

**Table 1: Treatment for Surveyed Cases, Zero Cases and Casualty Cases**

<i>Code</i>	<i>Treatment in multiplier calculation</i>
1, 2, 3	Considered as 'open' case and in operation only if essential information relevant for the unit are available. Else, treated as Non-Response (casualty).
4	Treated as 'zero-case' for all parameters.
5,7,8	Treated as Non-Response (casualty).

**Statement 0A: Number of Factories (i) in Frame , (ii) Selected and (iii) Surveyed**

<b>State/UT</b>	<b>No. of Factories</b>		
	<b>in Frame</b>	<b>Selected</b>	<b>Surveyed*</b>
A&N Islands	17	17	14
Andhra Pradesh	16815	3342	3184
Arunachal Pradesh	119	119	115
Assam	5111	1719	1514
Bihar	3462	1437	1376
Chandigarh	236	114	109
Chattishgarh	3597	1100	1058
Dadra & Nagar Haveli	1347	549	526
Daman & Diu	1711	495	485
Delhi	3404	1388	1338
Goa	711	368	360
Gujarat	26935	7332	7127
Haryana	11938	4963	4807
Himachal Pradesh	2715	985	934
Jammu & Kashmir	1021	503	474
Jharkhand	2877	928	884
Karnataka	13919	5122	4886
Kerala	7733	2563	2483
Madhya Pradesh	4695	2110	2027
Maharashtra	26210	8199	7538
Manipur	213	213	197
Meghalaya	168	168	148
Nagaland	187	187	187
Odisha	3111	1180	1105
Puducherry	708	366	350
Punjab	12859	2869	2712
Rajasthan	9513	3067	2930
Sikkim	88	88	84
Tamilnadu	38346	12801	12251
Telangana	15204	3321	3133
Tripura	642	642	621
Uttar Pradesh	15976	5412	5184
Uttarakhand	3049	1296	1223
West Bengal	9510	2956	2760
<b>All India</b>	<b>244147</b>	<b>77919</b>	<b>74124</b>

\* Surveyed cases exclude all the Non-reporting (Casualty) Cases

**Statement OB: Distribution of Number of Selected Factories by Status of Survey**

State/UT	Status Code							Total
	Operating Units			'Zero' Units	Non-reporting (Casualty) Units			
	1	2	3	4	5	7	8	
A&N Islands	13	0	0	1	2	1	0	17
Andhra Pradesh	2421	201	83	479	65	59	34	3342
Arunachal Pradesh	86	19	7	3	0	1	3	119
Assam	1232	76	48	158	107	47	51	1719
Bihar	1079	189	39	69	28	13	20	1437
Chandigarh	96	1	2	10	4	0	1	114
Chattishgarh	976	26	10	46	32	9	1	1100
D&N Haveli	476	4	1	45	0	4	19	549
Daman & Diu	406	0	8	71	6	1	3	495
Delhi	1104	37	11	186	7	3	40	1388
Goa	336	12	6	6	5	0	3	368
Gujarat	6166	60	91	810	22	40	143	7332
Haryana	3578	50	12	1167	81	53	22	4963
Himachal Pradesh	809	11	19	95	36	1	14	985
Jammu & Kashmir	394	25	37	18	0	1	28	503
Jharkhand	726	48	27	83	18	17	9	928
Karnataka	4343	83	42	418	76	30	130	5122
Kerala	2143	220	18	102	51	12	17	2563
Madhya Pradesh	1802	66	24	135	27	13	43	2110
Maharashtra	6542	98	63	835	151	34	476	8199
Manipur	170	14	12	1	0	15	1	213
Meghalaya	133	2	8	5	19	1	0	168
Nagaland	164	15	5	3	0	0	0	187
Odisha	924	60	58	63	24	9	42	1180
Puducherry	310	10	1	29	0	0	16	366
Punjab	2424	28	29	231	133	3	21	2869
Rajasthan	2635	65	75	155	31	44	62	3067
Sikkim	79	1	0	4	0	0	4	88
Tamilnadu	10636	720	43	852	226	29	295	12801
Telangana	2080	90	556	407	3	6	179	3321
Tripura	389	203	24	5	6	4	11	642
Uttar Pradesh	4583	72	43	486	152	37	39	5412
Uttarakhand	1113	3	6	101	50	10	13	1296
West Bengal	2465	65	33	197	113	8	75	2956
<b>All India</b>	<b>62833</b>	<b>2574</b>	<b>1441</b>	<b>7276</b>	<b>1475</b>	<b>505</b>	<b>1815</b>	<b>77919</b>



Statement 0C: Percentage Distribution of Number of Selected Factories by Status of Survey

State/UT	Status Code							Total
	Operating Units			'Zero' Units	Non-reporting (Casualty) Units			
	1	2	3	4	5	7	8	
A&N Islands	76.47	0.00	0.00	5.88	11.76	5.88	0.00	100.00
Andhra Pradesh	72.44	6.01	2.48	14.33	1.94	1.77	1.02	100.00
Arunachal Pradesh	72.27	15.97	5.88	2.52	0.00	0.84	2.52	100.00
Assam	71.67	4.42	2.79	9.19	6.22	2.73	2.97	100.00
Bihar	75.09	13.15	2.71	4.80	1.95	0.90	1.39	100.00
Chandigarh	84.21	0.88	1.75	8.77	3.51	0.00	0.88	100.00
Chattishgarh	88.73	2.36	0.91	4.18	2.91	0.82	0.09	100.00
D&N Haveli	86.70	0.73	0.18	8.20	0.00	0.73	3.46	100.00
Daman & Diu	82.02	0.00	1.62	14.34	1.21	0.20	0.61	100.00
Delhi	79.54	2.67	0.79	13.40	0.50	0.22	2.88	100.00
Goa	91.30	3.26	1.63	1.63	1.36	0.00	0.82	100.00
Gujarat	84.10	0.82	1.24	11.05	0.30	0.55	1.95	100.00
Haryana	72.09	1.01	0.24	23.51	1.63	1.07	0.44	100.00
Himachal Pradesh	82.13	1.12	1.93	9.64	3.65	0.10	1.42	100.00
Jammu & Kashmir	78.33	4.97	7.36	3.58	0.00	0.20	5.57	100.00
Jharkhand	78.23	5.17	2.91	8.94	1.94	1.83	0.97	100.00
Karnataka	84.79	1.62	0.82	8.16	1.48	0.59	2.54	100.00
Kerala	83.61	8.58	0.70	3.98	1.99	0.47	0.66	100.00
Madhya Pradesh	85.40	3.13	1.14	6.40	1.28	0.62	2.04	100.00
Maharashtra	79.79	1.20	0.77	10.18	1.84	0.41	5.81	100.00
Manipur	79.81	6.57	5.63	0.47	0.00	7.04	0.47	100.00
Meghalaya	79.17	1.19	4.76	2.98	11.31	0.60	0.00	100.00
Nagaland	87.70	8.02	2.67	1.60	0.00	0.00	0.00	100.00
Odisha	78.31	5.08	4.92	5.34	2.03	0.76	3.56	100.00
Puducherry	84.70	2.73	0.27	7.92	0.00	0.00	4.37	100.00
Punjab	84.49	0.98	1.01	8.05	4.64	0.10	0.73	100.00
Rajasthan	85.91	2.12	2.45	5.05	1.01	1.43	2.02	100.00
Sikkim	89.77	1.14	0.00	4.55	0.00	0.00	4.55	100.00
Tamilnadu	83.09	5.62	0.34	6.66	1.77	0.23	2.30	100.00
Telangana	62.63	2.71	16.74	12.26	0.09	0.18	5.39	100.00
Tripura	60.59	31.62	3.74	0.78	0.93	0.62	1.71	100.00
Uttar Pradesh	84.68	1.33	0.79	8.98	2.81	0.68	0.72	100.00
Uttarakhand	85.88	0.23	0.46	7.79	3.86	0.77	1.00	100.00
West Bengal	83.39	2.20	1.12	6.66	3.82	0.27	2.54	100.00
<b>All India</b>	<b>80.64</b>	<b>3.30</b>	<b>1.85</b>	<b>9.34</b>	<b>1.89</b>	<b>0.65</b>	<b>2.33</b>	<b>100.00</b>

Statement 1A: Distribution of Estimated Number of Factories by Status of Survey

State/UT	Status Code							Total
	Treated as Operating Units						Zero Units	
	Current Year Informaion			Data imputed from Previous Year				
	1	2	3	5*	7*	8*	4	
A&N Islands	13	0	0	0	0	0	1	14
Andhra Pradesh	11254	1369	516	7	0	10	3583	16739
Arunachal Pradesh	60	19	7	0	0	26	3	115
Assam	3628	246	260	24	2	117	743	5020
Bihar	2055	792	116	13	0	12	435	3423
Chandigarh	177	1	2	0	0	0	53	233
Chattishgarh	3077	108	39	15	1	1	336	3577
D&N Haveli	916	4	3	2	1	34	375	1335
Daman & Diu	1084	0	17	15	0	26	567	1709
Delhi	2363	106	37	1	0	20	849	3376
Goa	644	39	8	4	0	0	14	709
Gujarat	20265	284	318	43	5	116	5810	26841
Haryana	8013	167	65	57	0	10	3524	11836
Himachal Pradesh	2003	37	73	17	0	2	559	2691
Jammu & Kashmir	636	83	115	0	0	113	54	1001
Jharkhand	2080	265	108	2	0	3	398	2856
Karnataka	10227	387	184	52	1	118	2820	13789
Kerala	6186	851	81	13	0	18	548	7697
Madhya Pradesh	3918	109	26	27	0	6	554	4640
Maharashtra	17584	375	270	164	10	702	6868	25973
Manipur	168	14	12	2	0	0	1	197
Meghalaya	130	2	8	2	0	1	5	148
Nagaland	164	15	5	0	0	0	3	187
Odisha	2335	147	205	2	0	11	363	3063
Puducherry	534	28	4	0	0	47	90	703
Punjab	10485	153	148	86	0	16	1937	12825
Rajasthan	7852	287	376	4	3	43	860	9425
Sikkim	74	1	0	1	0	4	4	84
Tamilnadu	27243	4143	196	61	3	502	5983	38131
Telangana	7801	413	3856	0	0	60	3038	15168
Tripura	370	203	24	0	0	19	5	621
Uttar Pradesh	12361	207	129	92	1	28	3035	15853
Uttarakhand	2370	3	24	19	0	14	572	3002
West Bengal	7636	280	153	48	1	43	1259	9420
<b>All India</b>	<b>175709</b>	<b>11138</b>	<b>7381</b>	<b>771</b>	<b>27</b>	<b>2119</b>	<b>45250</b>	<b>242395</b>

\* Units with survey status codes 5, 7 & 8 for which data have been borrowed from the previous year.

Statement 1B: Percentage Distribution of Estimated Number of Factories by Status of Survey

State/UT	Status Code							Total
	Treated as Operating Units						Zero Units	
	Current Year Informaion			Data imputed from Previous Year				
	1	2	3	5*	7*	8*	4	
A&N Islands	92.86	0.00	0.00	0.00	0.00	0.00	7.14	100.00
Andhra Pradesh	67.23	8.18	3.08	0.04	0.00	0.06	21.41	100.00
Arunachal Pradesh	52.17	16.52	6.09	0.00	0.00	22.61	2.61	100.00
Assam	72.27	4.90	5.18	0.48	0.04	2.33	14.80	100.00
Bihar	60.04	23.14	3.39	0.38	0.00	0.35	12.71	100.00
Chandigarh	75.97	0.43	0.86	0.00	0.00	0.00	22.75	100.00
Chattishgarh	86.02	3.02	1.09	0.42	0.03	0.03	9.39	100.00
D&N Haveli	68.61	0.30	0.22	0.15	0.07	2.55	28.09	100.00
Daman & Diu	63.43	0.00	0.99	0.88	0.00	1.52	33.18	100.00
Delhi	69.99	3.14	1.10	0.03	0.00	0.59	25.15	100.00
Goa	90.83	5.50	1.13	0.56	0.00	0.00	1.97	100.00
Gujarat	75.50	1.06	1.18	0.16	0.02	0.43	21.65	100.00
Haryana	67.70	1.41	0.55	0.48	0.00	0.08	29.77	100.00
Himachal Pradesh	74.43	1.37	2.71	0.63	0.00	0.07	20.77	100.00
Jammu & Kashmir	63.54	8.29	11.49	0.00	0.00	11.29	5.39	100.00
Jharkhand	72.83	9.28	3.78	0.07	0.00	0.11	13.94	100.00
Karnataka	74.17	2.81	1.33	0.38	0.01	0.86	20.45	100.00
Kerala	80.37	11.06	1.05	0.17	0.00	0.23	7.12	100.00
Madhya Pradesh	84.44	2.35	0.56	0.58	0.00	0.13	11.94	100.00
Maharashtra	67.70	1.44	1.04	0.63	0.04	2.70	26.44	100.00
Manipur	85.28	7.11	6.09	1.02	0.00	0.00	0.51	100.00
Meghalaya	87.84	1.35	5.41	1.35	0.00	0.68	3.38	100.00
Nagaland	87.70	8.02	2.67	0.00	0.00	0.00	1.60	100.00
Odisha	76.23	4.80	6.69	0.07	0.00	0.36	11.85	100.00
Puducherry	75.96	3.98	0.57	0.00	0.00	6.69	12.80	100.00
Punjab	81.75	1.19	1.15	0.67	0.00	0.12	15.10	100.00
Rajasthan	83.31	3.05	3.99	0.04	0.03	0.46	9.12	100.00
Sikkim	88.10	1.19	0.00	1.19	0.00	4.76	4.76	100.00
Tamilnadu	71.45	10.87	0.51	0.16	0.01	1.32	15.69	100.00
Telangana	51.43	2.72	25.42	0.00	0.00	0.40	20.03	100.00
Tripura	59.58	32.69	3.86	0.00	0.00	3.06	0.81	100.00
Uttar Pradesh	77.97	1.31	0.81	0.58	0.01	0.18	19.14	100.00
Uttrakhand	78.95	0.10	0.80	0.63	0.00	0.47	19.05	100.00
West Bengal	81.06	2.97	1.62	0.51	0.01	0.46	13.37	100.00
<b>All India</b>	<b>72.49</b>	<b>4.59</b>	<b>3.05</b>	<b>0.32</b>	<b>0.01</b>	<b>0.87</b>	<b>18.67</b>	<b>100.00</b>

\* Units with survey status codes 5, 7 & 8 for which data have been borrowed from the previous year.

Statement 2A: Distribution of Estimated Number of Factories in Operation by Status of Survey

State/UT	Status Code						Total
	Treated as Operating Units						
	Current Year Informaion			Data borrowed from Previous Year			
	1	2	3	5*	7*	8*	
A&N Islands	13	0	0	0	0	0	13
Andhra Pradesh	11254	1369	516	7	0	10	13156
Arunachal Pradesh	60	19	7	0	0	26	112
Assam	3628	246	260	24	2	117	4277
Bihar	2055	792	116	13	0	12	2988
Chandigarh	177	1	2	0	0	0	180
Chattishgarh	3077	108	39	15	1	1	3241
D&N Haveli	916	4	3	2	1	34	960
Daman & Diu	1084	0	17	15	0	26	1142
Delhi	2363	106	37	1	0	20	2527
Goa	644	39	8	4	0	0	695
Gujarat	20265	284	318	43	5	116	21031
Haryana	8013	167	65	57	0	10	8312
Himachal Pradesh	2003	37	73	17	0	2	2132
Jammu & Kashmir	636	83	115	0	0	113	947
Jharkhand	2080	265	108	2	0	3	2458
Karnataka	10227	387	184	52	1	118	10969
Kerala	6186	851	81	13	0	18	7149
Madhya Pradesh	3918	109	26	27	0	6	4086
Maharashtra	17584	375	270	164	10	702	19105
Manipur	168	14	12	2	0	0	196
Meghalaya	130	2	8	2	0	1	143
Nagaland	164	15	5	0	0	0	184
Odisha	2335	147	205	2	0	11	2700
Puducherry	534	28	4	0	0	47	613
Punjab	10485	153	148	86	0	16	10888
Rajasthan	7852	287	376	4	3	43	8565
Sikkim	74	1	0	1	0	4	80
Tamilnadu	27243	4143	196	61	3	502	32148
Telangana	7801	413	3856	0	0	60	12130
Tripura	370	203	24	0	0	19	616
Uttar Pradesh	12361	207	129	92	1	28	12818
Uttarakhand	2370	3	24	19	0	14	2430
West Bengal	7636	280	153	48	1	43	8161
<b>All India</b>	<b>175709</b>	<b>11138</b>	<b>7381</b>	<b>771</b>	<b>27</b>	<b>2119</b>	<b>197145</b>

\* Units with survey status codes 5, 7 & 8 for which data have been borrowed from the previous year.

**Statement 2B:Percentage Distribution of Estimated Number of Factories in Operation by Status of Survey**

State/UT	Status Code						Total
	Treated as Operating Units						
	Current Year Informaion			Data borrowed from Previous Year			
	1	2	3	5*	7*	8*	
A&N Islands	100.00	0.00	0.00	0.00	0.00	0.00	100.00
Andhra Pradesh	85.54	10.41	3.92	0.05	0.00	0.08	100.00
Arunachal Pradesh	53.57	16.96	6.25	0.00	0.00	23.21	100.00
Assam	84.83	5.75	6.08	0.56	0.05	2.74	100.00
Bihar	68.78	26.51	3.88	0.44	0.00	0.40	100.00
Chandigarh	98.33	0.56	1.11	0.00	0.00	0.00	100.00
Chattishgarh	94.94	3.33	1.20	0.46	0.03	0.03	100.00
D&N Haveli	95.42	0.42	0.31	0.21	0.10	3.54	100.00
Daman & Diu	94.92	0.00	1.49	1.31	0.00	2.28	100.00
Delhi	93.51	4.19	1.46	0.04	0.00	0.79	100.00
Goa	92.66	5.61	1.15	0.58	0.00	0.00	100.00
Gujarat	96.36	1.35	1.51	0.20	0.02	0.55	100.00
Haryana	96.40	2.01	0.78	0.69	0.00	0.12	100.00
Himachal Pradesh	93.95	1.74	3.42	0.80	0.00	0.09	100.00
Jammu & Kashmir	67.16	8.76	12.14	0.00	0.00	11.93	100.00
Jharkhand	84.62	10.78	4.39	0.08	0.00	0.12	100.00
Karnataka	93.24	3.53	1.68	0.47	0.01	1.08	100.00
Kerala	86.53	11.90	1.13	0.18	0.00	0.25	100.00
Madhya Pradesh	95.89	2.67	0.64	0.66	0.00	0.15	100.00
Maharashtra	92.04	1.96	1.41	0.86	0.05	3.67	100.00
Manipur	85.71	7.14	6.12	1.02	0.00	0.00	100.00
Meghalaya	90.91	1.40	5.59	1.40	0.00	0.70	100.00
Nagaland	89.13	8.15	2.72	0.00	0.00	0.00	100.00
Odisha	86.48	5.44	7.59	0.07	0.00	0.41	100.00
Puducherry	87.11	4.57	0.65	0.00	0.00	7.67	100.00
Punjab	96.30	1.41	1.36	0.79	0.00	0.15	100.00
Rajasthan	91.68	3.35	4.39	0.05	0.04	0.50	100.00
Sikkim	92.50	1.25	0.00	1.25	0.00	5.00	100.00
Tamilnadu	84.74	12.89	0.61	0.19	0.01	1.56	100.00
Telangana	64.31	3.40	31.79	0.00	0.00	0.49	100.00
Tripura	60.06	32.95	3.90	0.00	0.00	3.08	100.00
Uttar Pradesh	96.43	1.61	1.01	0.72	0.01	0.22	100.00
Uttarakhand	97.53	0.12	0.99	0.78	0.00	0.58	100.00
West Bengal	93.57	3.43	1.87	0.59	0.01	0.53	100.00
<b>All India</b>	<b>89.13</b>	<b>5.65</b>	<b>3.74</b>	<b>0.39</b>	<b>0.01</b>	<b>1.07</b>	<b>100.00</b>

\* Units with survey status codes 5, 7 & 8 for which data have been borrowed from the previous year.

### **3. Principal Characteristics - All India Level**

#### **3.1 Principal Aggregates – All India**

**3.1.1** Statement 3A presents the estimates for principal characteristics for the whole factory sector at the all-India level for the year 2018-19 along with respective values in the last four years. Statement 3B displays the concerned annual growth rates for those principal characteristics.

**3.1.2** The statement 3A shows that in 2018-19, there have been 1,97,145 registered operating factories in all States and Union Territories except the State of Mizoram and Union Territory of Lakshadweep. This is found to be higher by 0.80 percent than that of last year. These factories together have a total stock of fixed capital worth ₹ 34,66,06,975 Lakhs and invested capital ₹47,77,26,474 Lakhs. These are higher by 5.48 and 7.09 percent, respectively compared to those estimated in ASI 2017-18. These factories have provided gainful employment to 1,62,80,211 persons showing an increase of 4.26 percent with respect to the preceding year and distributed ₹ 4,62,07,983 Lakhs as emoluments to employees, showing an increase of 10.45 percent in one year. Those factories have consumed inputs both industrial and non-industrial in nature, worth ₹ 77,43,77,980 Lakhs to produce ₹ 92,81,79,908 Lakhs, worth of goods and services valued at ex-factory prices and contributed ₹ 12,76,46,637 Lakhs by way of net value added through manufacturing to the national income. The input and output have shown growth of 17.24% and 14.99% respectively, the net value added grew by 3.81% in ASI 2018-19 as compared to those estimated as per the previous ASI.

#### **3.2 Structural Ratios and Technical Coefficients**

**3.2.1** A few structural ratios and technical coefficients derived from the macro level estimates of principal characteristics for the current and the preceding four years have been given in Statement 4. It may be noted that the ratios are subject to certain limitations due to changes in prices of commodities from year to year some of these ratios particularly value based characteristics are not strictly comparable over time.

**3.2.2** Statement 4 reveals that the average size of the factory, measured in terms of value-based characteristics, like, fixed capital, net value added by manufacture has maintained a steady upward trend over years. As stated in the preceding paragraph, the increase in the value-based characteristics may be the combined result of the increase in physical output as well as the increase in prices. The survey results revealed that in 2018-19, a factory with an average investment of ₹ 1,758 Lakhs in fixed capital has provided gainful employment to 83 persons, produced goods and services at ex-factory prices worth ₹ 4,708 Lakhs and contributed ₹ 647 Lakhs by way of net value added through manufacturing to the national income. However, taking an employee as a unit of measurement, the survey reveals that an employee, in the organized manufacturing sector during 2018-19 has, on average, produced an output of ₹ 57,01,277 and contributed ₹ 7,84,060 to the national income by way of net value added through manufacturing. The corresponding averages in the preceding year are respectively ₹ 51,69,625 and ₹ 7,87,515.

**3.2.3** The fixed capital to Net Value Added ratio, which provides a measure of the fixed capital required to produce one unit of net value added, has increased to 2.72 in 2018-19 as compared to the previous year. The fixed capital required to produce one unit of ex-factory output has decreased to 0.37. The level of efficiency, measured by the ratio of the net value added to gross output has decreased to 0.14. The GVA to fixed capital ratio has decreased to 0.44 from 0.45, also the output to input ratio has decreased to 1.20.



**Figure 1: Number of Workers and Total Persons Engaged: All-India**

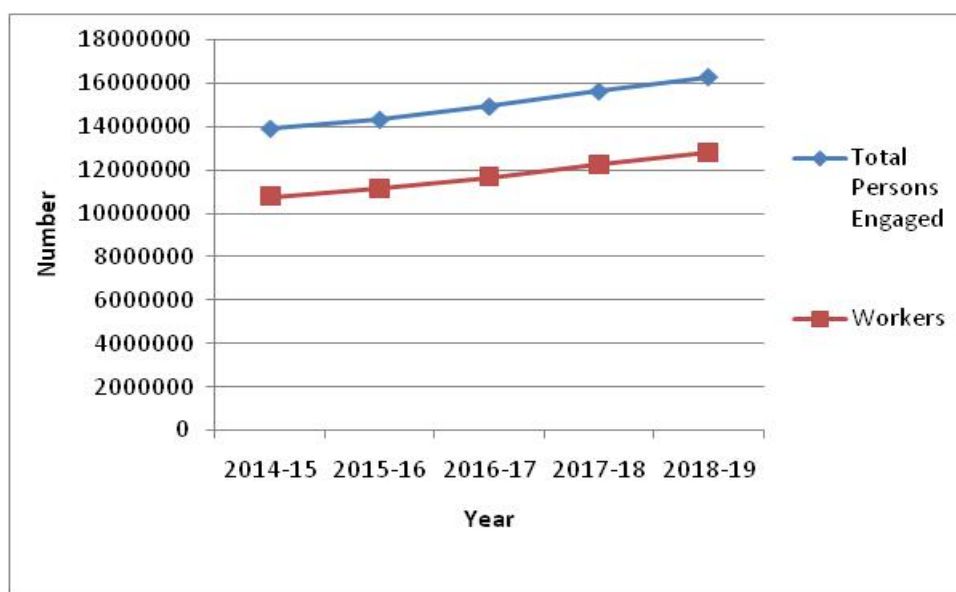


Figure 1 shows the number of workers and total persons engaged for the last five years i.e. 2014-15 to 2018-19. The above figure is showing an upward trend for both workers and total persons engaged in the last five years. Moreover, the total number of persons engaged is slightly steeper than the workers. It implies that the number of auxiliary employees, managerial staff etc. that are not directly linked with the production, is increasing over time in comparison to the employment directly linked to the production process.

**Figure 2: Technical coefficients: All –India**

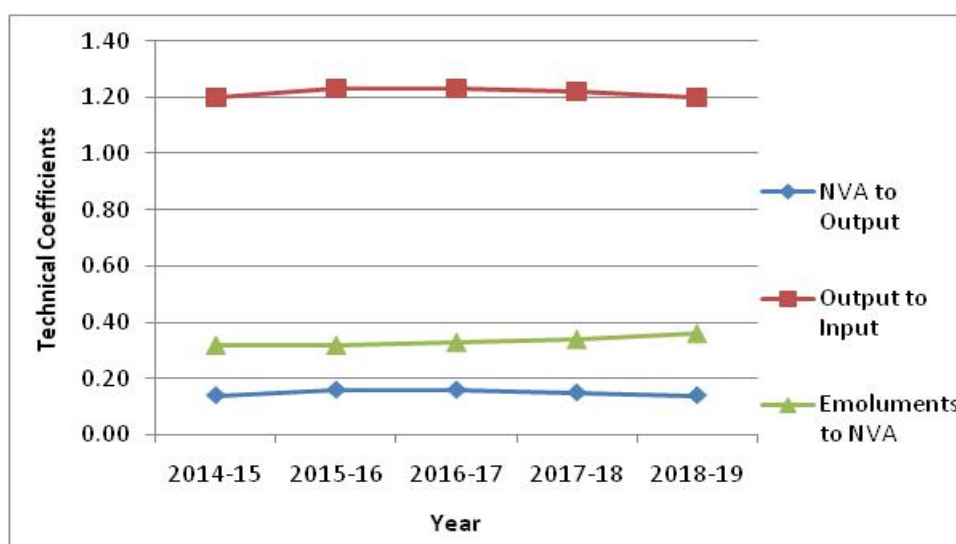


Figure 2 presents some technical coefficients for the last five years i.e. 2014-15 to 2018-19. Here the technical coefficients are estimated on the basis of NVA to output, output to input and emoluments to NVA. From the above figure, it is found that output to input ratio, indicating the industrial efficiency has almost been static over the past few years. Again, NVA to Output and Emoluments to NVA have also remained stable over years.

**Figure 3: Annual Growth Rates (%) of Selected Characteristics for Different Years over Previous Year: All –India**

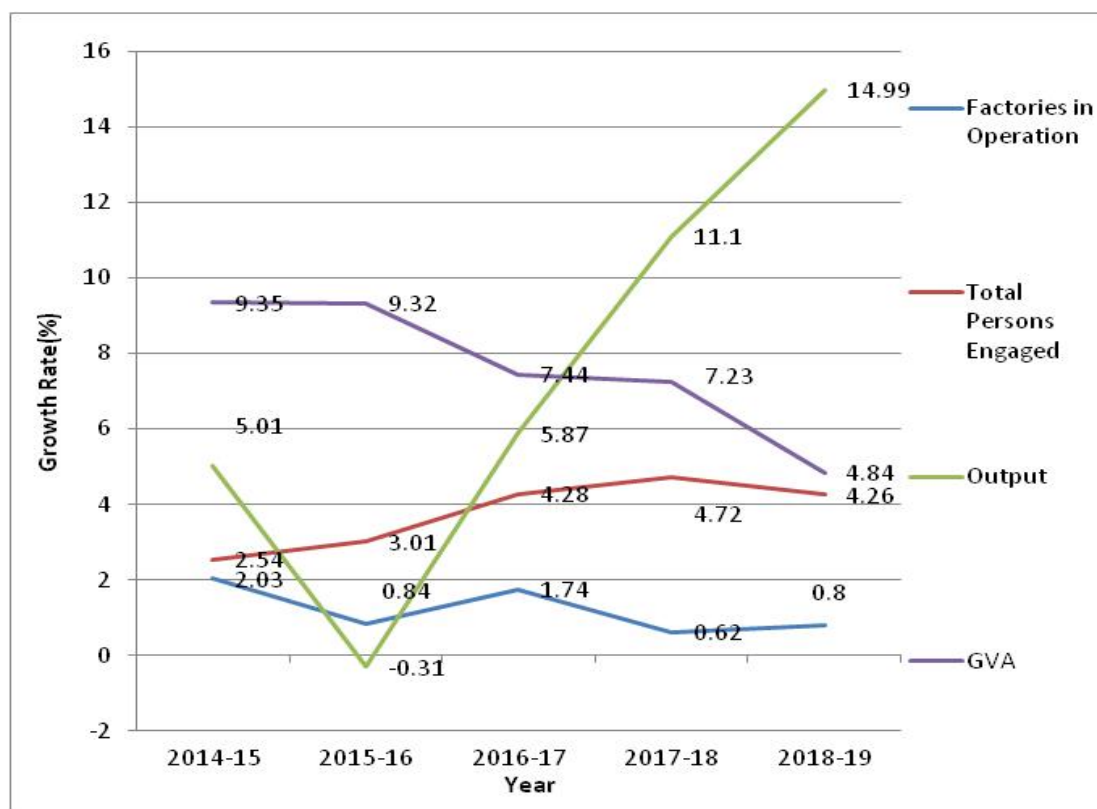


Figure 3 depicts the annual growth rates for Factories in Operation, Total Persons Engaged, Output and GVA for the last five years. The growth rates in respect of the number of operating factories and Output have increased in 2018-19 as compared to last year in the organized factory sector. However, decrease in growth rate is observed in the case of Total Persons Engaged and GVA in 2018-19.

**Statement 3A: Value of Principal Characteristics**

<b>Characteristics</b>	<b>Unit</b>	<b>ASI Year</b>				
		<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
Factories in Operation	Number	189468	191062	194380	195584	197145
Fixed Capital	₹ Lakhs	247445461	280964722	319038649	328588927	346606975
Invested Capital	₹ Lakhs	351396431	385309984	429625490	446094480	477726474
Workers	Number	10755288	11136133	11662947	12224422	12798588
Total Persons Engaged	Number	13881386	14299710	14911189	15614619	16280211
Wages to Worker	₹ Lakhs	14048488	15600116	17353716	19280066	21576035
Total Emoluments	₹ Lakhs	30741306	33975074	37516385	41835716	46207983
Input	₹ Lakhs	571910956	558907407	589746374	660520215	774377980
Output	₹ Lakhs	688381205	686235375	726551423	807217258	928179908
GVA	₹ Lakhs	116470249	127327968	136805049	146697043	153801928
Depreciation	₹ Lakhs	18954077	20079459	22213138	23729624	26155291
NVA	₹ Lakhs	97516172	107248509	114591911	122967418	127646637
Rent Paid for Fixed Assets	₹ Lakhs	1709361	1774760	1964321	2147363	512545
Interest Paid	₹ Lakhs	17286008	18213736	18940173	18768379	19343714
Income	₹ Lakhs	81228119	90165276	97221421	105078789	107790378
Profit	₹ Lakhs	46028299	51319338	53935285	57624246	55652258

**Statement 3B: Observed Growth Rate**

<b>Characteristics</b>	<b>Percentage Growth</b>			
	<b>2015-16 over 2014-15</b>	<b>2016-17 over 2015-16</b>	<b>2017-18 over 2016-17</b>	<b>2018-19 over 2017-18</b>
Factories in Operation	0.84	1.74	0.62	0.80
Fixed Capital	13.55	13.55	2.99	5.48
Invested Capital	9.65	11.50	3.83	7.09
Workers	3.54	4.73	4.81	4.70
Total Persons Engaged	3.01	4.28	4.72	4.26
Wages to Worker	11.04	11.24	11.10	11.91
Total Emoluments	10.52	10.42	11.51	10.45
Input	-2.27	5.52	12.00	17.24
Output	-0.31	5.87	11.10	14.99
GVA	9.32	7.44	7.23	4.84
Depreciation	5.94	10.63	6.83	10.22
NVA	9.98	6.85	7.31	3.81
Rent Paid for Fixed Assets	3.83	10.68	9.32	-76.13
Interest Paid	5.37	3.99	-0.91	3.07
Income	11.00	7.83	8.08	2.58
Profit	11.50	5.10	6.84	-3.42

**Statement 4: Estimate of Structural Ratios and Technical Co-efficients**

<b>Structural Ratios</b>	<b>Unit</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
Fixed Capital per Factory in Operation	₹ Lakhs	1306	1471	1641	1680	1758
Total Persons Engaged per Factory in Operation	Number	73	75	77	80	83
Workers per Factory in Operation	Number	57	58	60	63	65
Gross Output per Factory in Operation	₹ Lakhs	3633	3592	3738	4127	4708
Net Value Added per Factory in Operation	₹ Lakhs	515	561	590	629	647
Output per Person Engaged	₹	4959024	4798946	4872525	5169625	5701277
Gross Value Added per Person Engaged	₹	839039	890423	917466	939485	944717
Net Value Added per Person Engaged	₹	702496	750005	768496	787515	784060
Wages per Worker	₹	130619	140086	148794	157718	168581

<b>Technical Coefficients</b>						
Fixed Capital to Net Value Added		2.54	2.62	2.78	2.67	2.72
Fixed Capital to Output		0.36	0.41	0.44	0.41	0.37
Net Value Added to Output		0.14	0.16	0.16	0.15	0.14
Gross Value Added to Fixed Capital		0.47	0.45	0.43	0.45	0.44
Output to Input		1.20	1.23	1.23	1.22	1.20
Profit to Output		0.07	0.07	0.07	0.07	0.06
Contract Workers to Total Workers		0.35	0.36	0.36	0.36	0.38

## **4. Principal Characteristics – Industry (NIC-2 digit) Level**

### **4.1 Principal Characteristics**

**4.1.1** Statement 5A summarizes the relative status of the major industry groups. All the major industry groups have been ranked in the descending order of their contribution to the GVA by manufacture. Statement 5B gives the percentage distribution of these characteristics.

**4.1.2** Out of 28 industries in terms of National Industrial Classification (NIC)-2008 2-digit codes under the coverage of the survey, major five employment providing industries were Food Products (11.22%), Textiles (10.28%), Wearing Apparel (7.35%), Basic Metals (7.06%) and Motor Vehicles, Trailers and Semi-trailers (6.73%). Figures within the bracket denote the percentage share in the total number of persons engaged by the industry. Thus, the above five industries engaged 42.64% of the total manpower in the factory sector. Figure 4 shows the relative position of major 10 employment producing industries along with their percentage shares.

**4.1.3** Top six industries in terms of their percentage share in aggregate GVA were Basic Metals, Chemicals and Chemical Products, Motor Vehicles, Trailers and Semi-Trailers, Pharmaceuticals, Medicinal Chemical & Botanical Products, Food Products and Machinery and Equipment n.e.c.. They contributed a total of 50.78% of aggregate GVA with individual shares of 11.00%, 10.40%, 8.22%, 7.67%, 7.35% and 6.14% respectively. The above six industries also accounted for 46.13% of aggregate fixed capital. Figure 5 shows the relative position of major 10 industries in respect of their percentage shares in aggregate GVA.

### **4.2 Structural Ratios**

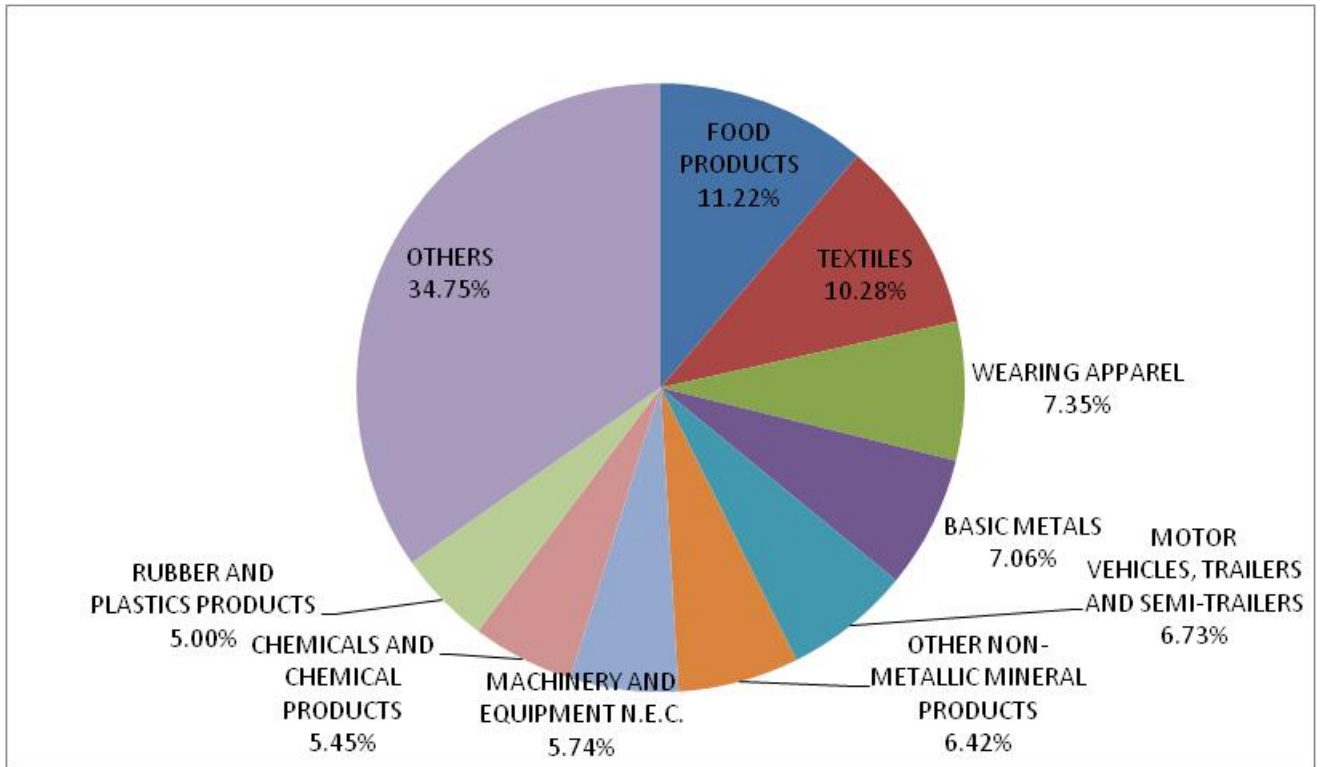
**4.2.1** Statement 6 gives the structural ratios by NIC 2-digit. The minimum, maximum and the average value along with the names of the corresponding industry have been summarized for some of these structural ratios below in Table 2.

**Table 2: Structural Ratios: Minimum, Maximum and Average Values: All India**

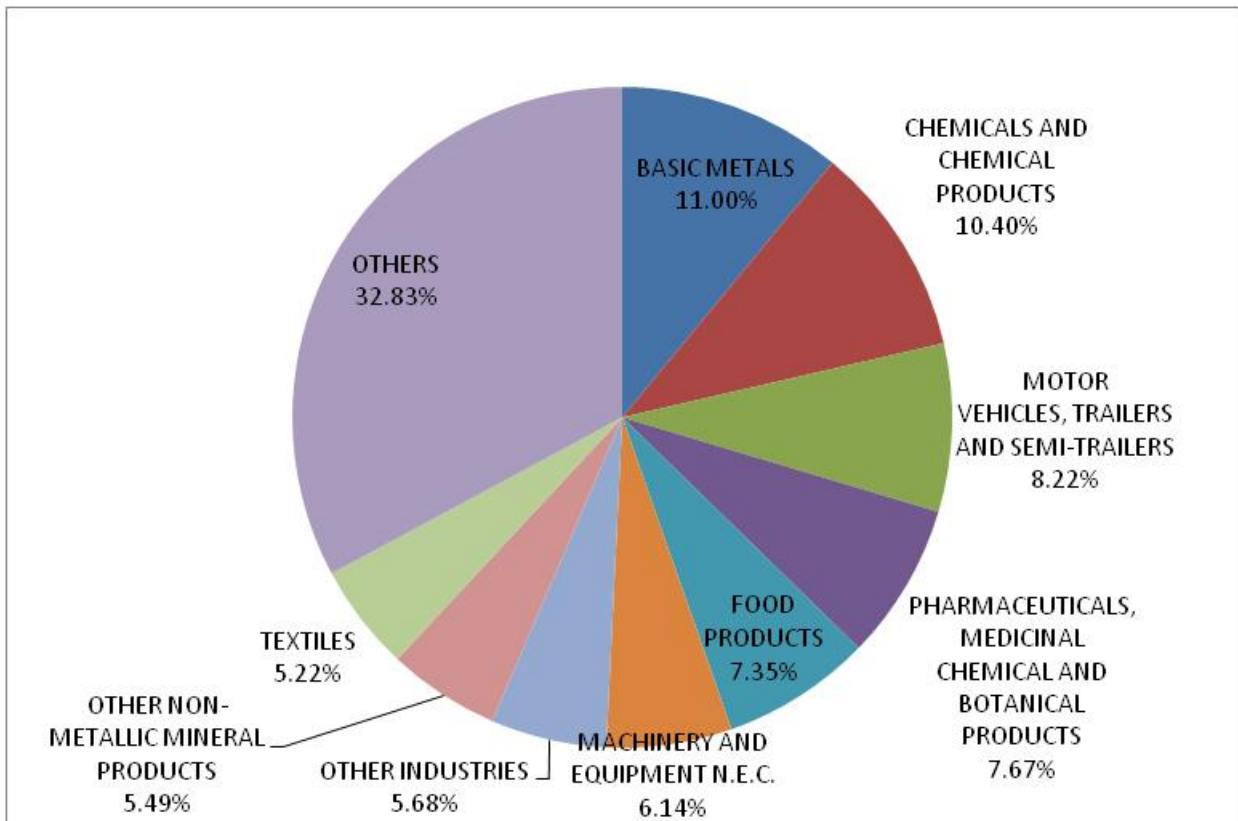
<b>Structural Ratio</b>	<b>Minimum Value</b>	<b>Maximum Value</b>	<b>Average Value</b>
<b>Fixed Capital per Factory in Operation</b> (₹ Lakhs)	175 (NIC 01 - COTTON GINNING, CLEANING AND BAILING (01632); SEED PROCESSING FOR PROPAGATION (01640))	31,449 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	1,758
<b>Gross Output per Factory in Operation</b> (₹ Lakhs)	708 (NIC 16 - WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS)	78,917 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	4,708
<b>Net Value Added per Factory in Operation</b> (₹ Lakhs)	105 (NIC 16 - WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS)	3,953 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	647
<b>Workers per Factory in Operation</b> (Number)	18 (NIC 16 - WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS)	167 (NIC 29 - MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS)	65
<b>Total Persons Engaged per Factory in Operation</b> (Number)	24 (NIC 16 - WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS)	213 (NIC 29 - MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS)	83
<b>Net Value Added per Engaged Person</b> (₹)	2,99,601 (NIC 14 - WEARING APPAREL)	30,36,879 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	7,84,060
<b>Wages per Worker</b> (₹)	46,890 (NIC 12 - TOBACCO PRODUCTS)	3,34,368 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	1,68,581



**Figure 4: Percentage Share of Major Industries in Total Number of Persons Engaged in the Factory Sector: All –India**



**Figure 5: Percentage Share of Major Industries in Aggregate GVA by the Factory Sector: All –India**



**Statement 5A: Estimate of Some Principal Characteristics by 2-digit Level of NIC  
(Arranged in Descending Order of GVA)**

NIC-08	Description	No. of Operating Factories (no.)	Fixed Capital (₹ Lakhs)	Working Capital (₹ Lakhs)	Invested Capital (₹ Lakhs)	Gross Value of Plant and Machinery (₹ Lakhs)	Total Persons Engaged (no.)	Total Input (₹ Lakhs)	Total Output (₹ Lakhs)	GVA (₹ Lakhs)	NVA (₹ Lakhs)	% Share in Aggregate GVA
24	BASIC METALS	9613	64777634	611428	82858501	65163964	1149215	113002022	129916070	16914048	13168672	11.00
20	CHEMICALS AND CHEMICAL PRODUCTS	10925	30323658	10256243	40294278	33284295	887240	66120705	82112597	15991891	13944760	10.40
29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	5135	19017722	5156001	25801314	23065369	1095138	58657115	71303693	12646577	10026992	8.22
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	4434	12772131	10348422	19786813	10147882	758352	22427368	34222715	11795347	10615231	7.67
10	FOOD PRODUCTS	32529	22132560	10938183	43844540	17555911	1826812	107759874	119059534	11299660	9428615	7.35
28	MACHINERY AND EQUIPMENT N.E.C.	11046	10878259	7619372	18866653	8616979	934103	31925514	41376583	9451069	8403793	6.14
OT	OTHER INDUSTRIES	10872	51097316	-1059976	54004337	44667669	508851	22037736	30766990	8729254	5504740	5.68
23	OTHER NON-METALLIC MINERAL PRODUCTS	24238	21129741	3268190	26586524	21433560	1045868	24989631	33436815	8447185	6775892	5.49
13	TEXTILES	13843	16815073	3793485	23846189	18560476	1673250	35754409	43781702	8027293	6462473	5.22
19	COKE AND REFINED PETROLEUM PRODUCTS	1437	45192006	-3615420	55895624	36260175	187072	105848518	113403646	7555128	5681151	4.91
22	RUBBER AND PLASTICS PRODUCTS	11766	11361948	5664307	16033596	11636095	813489	28682810	34948381	6265571	5081636	4.07
27	ELECTRICAL EQUIPMENT	6024	6377422	5368437	11420608	5594947	607944	27109465	32878719	5769254	5064078	3.75
30	OTHER TRANSPORT EQUIPMENT	1927	4810637	2038652	6899602	4561067	370776	17569660	22354935	4785274	4290680	3.11
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	12142	5707724	4526277	9680220	4739007	681921	18180567	22816481	4635914	4045031	3.01
14	WEARING APPAREL	8341	3106114	2348958	5996667	1710895	1197318	11425684	15308246	3882563	3587171	2.52
26	COMPUTER, ELECTRONIC AND OPTICAL PRODUCTS	1863	2509231	3503223	5618783	2263881	255847	20763114	24262116	3499002	3160008	2.28
17	PAPER AND PAPER PRODUCTS	5937	6119135	1525448	8102700	6023615	316614	11321916	13918436	2596520	2130830	1.69
32	OTHER MANUFACTURING	2910	1597006	3274964	4619206	1121143	418767	18736610	21138398	2401789	2223140	1.56
11	BEVERAGES	1930	3779590	663756	4951697	3651919	178474	6365124	8639977	2274853	1909575	1.48
12	TOBACCO PRODUCTS	2888	609843	458198	1352914	609001	456487	3392970	5240835	1847865	1778954	1.20
15	LEATHER AND RELATED PRODUCTS	3816	1273051	799953	2461492	796270	407117	4713997	6110123	1396126	1255255	0.91
18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	3426	2198748	577107	2654963	1387915	152344	2907670	4221332	1313662	1142310	0.85
01	COTTON GINNING, CLEANING AND BAILING (01632); SEED PROCESSING FOR PROPAGATION (01640)	2917	509933	1259258	1906681	153055	79934	7962450	8505789	543339	489716	0.35
16	WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE	4046	714098	584298	1388970	511990	98176	2367032	2863503	496470	424003	0.32
31	MANUFACTURE OF FURNITURE	1644	546254	206200	962185	269584	86623	1932603	2418881	486277	431633	0.32
33	REPAIR AND INSTALLATION OF MACHINERY AND EQUIPMENT	608	442933	293249	549830	272450	38267	714134	1002524	288390	245403	0.19
58	PUBLISHING ACTIVITIES	271	296914	-60332	411270	390632	24001	450519	679031	228511	194352	0.15
38	WASTE COLLECTION, TREATMENT & DISPOSAL ACTIVITIES; MATERIALS RECOVERY	483	452329	502265	845167	320145	21425	1203779	1395505	191726	144340	0.12
08	SALT PRODUCTION BY EVAPORATION OF SEA WATER OR OTHER SALINE WATERS (08932)	131	57964	16311	85151	54579	8787	54982	96351	41369	36203	0.03
	<b>ALL INDUSTRIES</b>	<b>197145</b>	<b>346606975</b>	<b>80866459</b>	<b>477726474</b>	<b>324824469</b>	<b>16280211</b>	<b>774377980</b>	<b>928179908</b>	<b>153801928</b>	<b>127646637</b>	<b>100.00</b>

**Statement 5B: Percentage Distribution of Principal Characteristics by 2-digit Level of NIC  
(Arranged in Descending Order of GVA)**

NIC-08	Description	No. of Operating Factories	Fixed Capital	Working Capital	Invested Capital	Gross Value of Plant and Machinery	Total Persons Engaged	Total Input	Total Output	GVA	NVA
24	BASIC METALS	4.88	18.69	0.76	17.34	20.06	7.06	14.59	14.00	11.00	10.32
20	CHEMICALS AND CHEMICAL PRODUCTS	5.54	8.75	12.68	8.43	10.25	5.45	8.54	8.85	10.40	10.92
29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	2.60	5.49	6.38	5.40	7.10	6.73	7.57	7.68	8.22	7.86
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	2.25	3.68	12.80	4.14	3.12	4.66	2.90	3.69	7.67	8.32
10	FOOD PRODUCTS	16.50	6.39	13.53	9.18	5.40	11.22	13.92	12.83	7.35	7.39
28	MACHINERY AND EQUIPMENT N.E.C.	5.60	3.14	9.42	3.95	2.65	5.74	4.12	4.46	6.14	6.58
OT	OTHER INDUSTRIES	5.51	14.74	-1.31	11.30	13.75	3.13	2.85	3.31	5.68	4.31
23	OTHER NON-METALLIC MINERAL PRODUCTS	12.29	6.10	4.04	5.57	6.60	6.42	3.23	3.60	5.49	5.31
13	TEXTILES	7.02	4.85	4.69	4.99	5.71	10.28	4.62	4.72	5.22	5.06
19	COKE AND REFINED PETROLEUM PRODUCTS	0.73	13.04	-4.47	11.70	11.16	1.15	13.67	12.22	4.91	4.45
22	RUBBER AND PLASTICS PRODUCTS	5.97	3.28	7.00	3.36	3.58	5.00	3.70	3.77	4.07	3.98
27	ELECTRICAL EQUIPMENT	3.06	1.84	6.64	2.39	1.72	3.73	3.50	3.54	3.75	3.97
30	OTHER TRANSPORT EQUIPMENT	0.98	1.39	2.52	1.44	1.40	2.28	2.27	2.41	3.11	3.36
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	6.16	1.65	5.60	2.03	1.46	4.19	2.35	2.46	3.01	3.17
14	WEARING APPAREL	4.23	0.90	2.90	1.26	0.53	7.35	1.48	1.65	2.52	2.81
26	COMPUTER, ELECTRONIC AND OPTICAL PRODUCTS	0.94	0.72	4.33	1.18	0.70	1.57	2.68	2.61	2.28	2.48
17	PAPER AND PAPER PRODUCTS	3.01	1.77	1.89	1.70	1.85	1.94	1.46	1.50	1.69	1.67
32	OTHER MANUFACTURING	1.48	0.46	4.05	0.97	0.35	2.57	2.42	2.28	1.56	1.74
11	BEVERAGES	0.98	1.09	0.82	1.04	1.12	1.10	0.82	0.93	1.48	1.50
12	TOBACCO PRODUCTS	1.46	0.18	0.57	0.28	0.19	2.80	0.44	0.56	1.20	1.39
15	LEATHER AND RELATED PRODUCTS	1.94	0.37	0.99	0.52	0.25	2.50	0.61	0.66	0.91	0.98
18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	1.74	0.63	0.71	0.56	0.43	0.94	0.38	0.45	0.85	0.89
01	COTTON GINNING, CLEANING AND BAILING (01632); SEED PROCESSING FOR PROPAGATION (01640)	1.48	0.15	1.56	0.40	0.05	0.49	1.03	0.92	0.35	0.38
16	WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE	2.05	0.21	0.72	0.29	0.16	0.60	0.31	0.31	0.32	0.33
31	MANUFACTURE OF FURNITURE	0.83	0.16	0.25	0.20	0.08	0.53	0.25	0.26	0.32	0.34
33	REPAIR AND INSTALLATION OF MACHINERY AND EQUIPMENT	0.31	0.13	0.36	0.12	0.08	0.24	0.09	0.11	0.19	0.19
58	PUBLISHING ACTIVITIES	0.14	0.09	-0.07	0.09	0.12	0.15	0.06	0.07	0.15	0.15
38	WASTE COLLECTION, TREATMENT & DISPOSAL ACTIVITIES; MATERIALS RECOVERY	0.24	0.13	0.62	0.18	0.10	0.13	0.16	0.15	0.12	0.11
08	SALT PRODUCTION BY EVAPORATION OF SEA WATER OR OTHER SALINE WATERS (08932)	0.07	0.02	0.02	0.02	0.02	0.05	0.01	0.01	0.03	0.03
	<b>ALL INDUSTRIES</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Statement 6: Structural Ratios by 2-digit Level of NIC

NIC-08	Description	Fixed Capital per Factory in Operation (₹ Lakhs)	Total Persons Engaged per Factory in Operation (Number)	Workers per Factory in Operation (Number)	Gross Output per Factory in Operation (₹ Lakhs)	Net Value Added per Factory in Operation (₹ Lakhs)	Output per Person Engaged (₹)	Gross Value Added per Person Engaged (₹)	Net Value Added per Person Engaged (₹)	Wages per Worker (₹)
01	COTTON GINNING, CLEANING AND BAILING (01632) ; SEED PROCESSING FOR PROPAGATION (01640)	175	27	21	2916	168	10641015	679735	612650	103019
08	SALT PRODUCTION BY EVAPORATION OF SEA WATER OR OTHER SALINE WATERS (08932)	442	67	58	736	276	1096518	470798	412006	100836
10	FOOD PRODUCTS	680	56	44	3660	290	6517339	618545	516124	135942
11	BEVERAGES	1958	92	72	4477	989	4841028	1274613	1069946	162785
12	TOBACCO PRODUCTS	211	158	152	1815	616	1148080	404801	389705	46890
13	TEXTILES	1215	121	103	3163	467	2616567	479743	386223	144111
14	WEARING APPAREL	372	144	123	1835	430	1278545	324272	299601	133404
15	LEATHER AND RELATED PRODUCTS	334	107	90	1601	329	1500827	342930	308328	132540
16	WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS	176	24	18	708	105	2916704	505694	431881	124481
17	PAPER AND PAPER PRODUCTS	1031	53	42	2344	359	4396027	820090	673006	155741
18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	642	44	29	1232	333	2770921	862300	749823	182760
19	COKE AND REFINED PETROLEUM PRODUCTS	31449	130	85	78917	3953	60620321	4038620	3036879	334368
20	CHEMICALS AND CHEMICAL PRODUCTS	2776	81	61	7516	1276	9254835	1802431	1571701	191927
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	2880	171	109	7718	2394	4512774	1555392	1399776	216831
22	RUBBER AND PLASTICS PRODUCTS	966	69	55	2970	432	4296110	770210	624672	169282
23	OTHER NON-METALLIC MINERAL PRODUCTS	872	43	35	1380	280	3197040	807672	647873	125053
24	BASIC METALS	6739	120	96	13515	1370	11304766	1471791	1145884	236077
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	470	56	44	1879	333	3345913	679832	593182	183710
26	COMPUTER, ELECTRONIC AND OPTICAL PRODUCTS	1347	137	97	13023	1696	9483057	1367615	1235116	198619
27	ELECTRICAL EQUIPMENT	1059	101	78	5458	841	5408182	948978	832984	190962
28	MACHINERY AND EQUIPMENT N.E.C.	985	85	61	3746	761	4429553	1011780	899664	206537
29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	3704	213	167	13886	1953	6510932	1154793	915592	213317
30	OTHER TRANSPORT EQUIPMENT	2496	192	153	11601	2227	6029229	1290611	1157216	199743
31	FURNITURE	332	53	39	1471	263	2792423	561372	498289	159535
32	OTHER MANUFACTURING	549	144	118	7264	764	5047771	573538	530878	169590
33	REPAIR AND INSTALLATION OF MACHINERY AND EQUIPMENT	729	63	48	1649	404	2619813	753626	641291	332039
38	WASTE COLLECTION, TREATMENT AND DISPOSAL ACTIVITIES; MATERIALS RECOVERY	936	44	34	2889	299	6513442	894870	673699	145088
58	PUBLISHING ACTIVITIES	1096	89	47	2506	717	2829178	952089	809766	285101
	OTHER INDUSTRIES	4700	47	32	2830	506	6046365	1715483	1081798	185342
	<b>All India</b>	<b>1758</b>	<b>83</b>	<b>65</b>	<b>4708</b>	<b>647</b>	<b>5701277</b>	<b>944717</b>	<b>784060</b>	<b>168581</b>

## **5. Principal Characteristics - State/UT Level**

### **5.1 Principal Aggregates**

**5.1.1** Statements 7A and 7B respectively present data on some selected aggregates both in absolute and percentage terms for all the States/UTs ranked in the descending order of their contribution to gross value added. Statement 8A and 8B give the parameter values from manufacturing sector only for all the States/UTs.

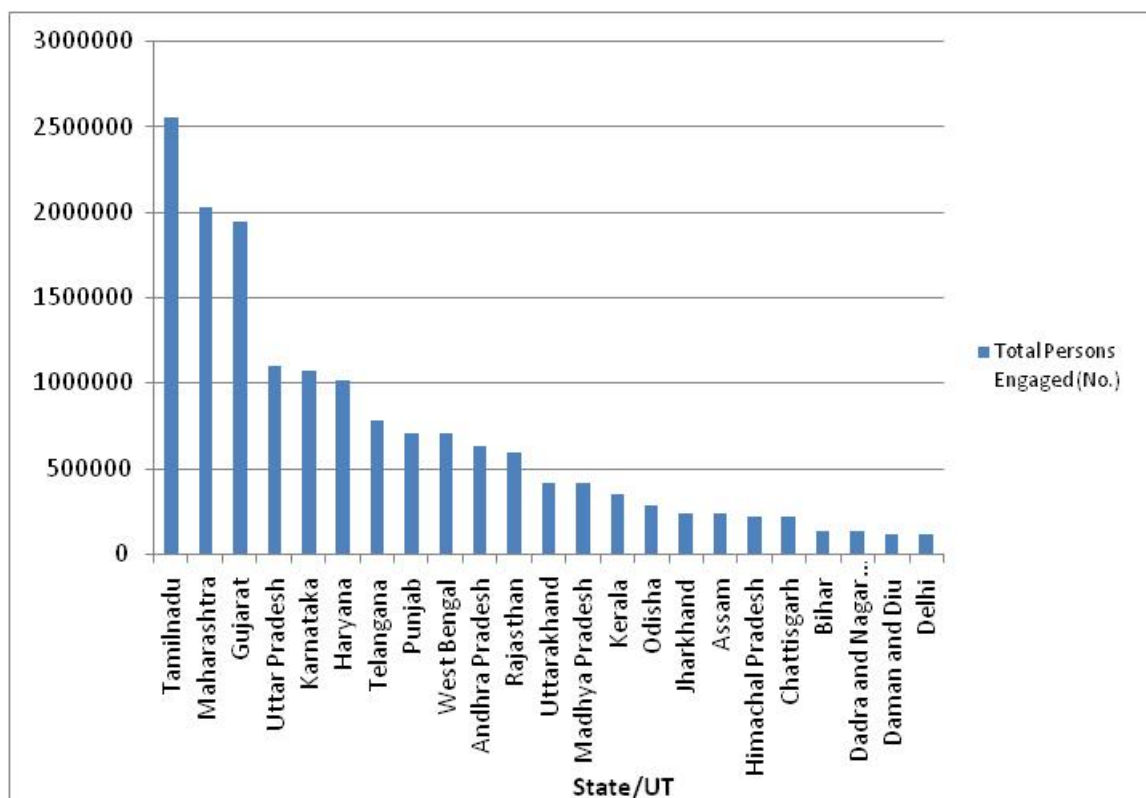
**5.1.2** In 2018-19, the number of operating factories is reported highest in Tamilnadu (16.31%) followed by Gujarat (10.67%). Gujarat's share is the highest in respect of aggregates gross value of plant and machinery (20.63%), fixed capital (20.47%), invested capital (19.33%), input (17.95%) and total output (17.44%). Maharashtra occupies the first position by virtue of its contribution to working capital (16.79%), total emoluments (17.23%), gross value added (15.11%) and net value added (15.37%). In terms of contribution to net value added, Maharashtra is followed by Gujarat (14.73%), Tamilnadu (11.03%), Karnataka (6.93%) and Haryana (6.18%) in that order.

### **5.2 Structural Ratios**

**5.2.1** Statement 9A gives the structural ratios for all the States/UTs, considering all the sectors. Whereas, Statement 9B gives the structural ratios for all the States/UTs, considering only the selected manufacturing sector. The minimum, maximum and the average value along with the names of the corresponding States/UTs have been summarized for some of these structural ratios (for the whole registered manufacturing sector) below in Table 3. Further, Figure 6 provides graphical representation of Total Persons Engaged in the registered manufacturing sector by State/UT.

**Table 3: Structural Ratios: Minimum, Maximum and Average Values: All India**

Structural Ratio	Minimum Value	Maximum Value	Average Value
<b>Fixed Capital per Factory in Operation</b> (₹ Lakhs)	74 (Tripura)	11,455 (Odisha)	1,758
<b>Gross Output per Factory in Operation</b> (₹ Lakhs)	238 (Manipur)	23,882 (Sikkim)	4,708
<b>Net Value Added per Factory in Operation</b> (₹ Lakhs)	43 (Tripura)	13,560 (Sikkim)	647
<b>Workers per Factory in Operation</b> (Number)	16 (A & N Islands)	216 (Sikkim)	65
<b>Total Persons Engaged per Factory in Operation</b> (Number)	22 (A & N Islands)	283 (Sikkim)	83
<b>Net Value Added per Person Engaged</b> (₹)	1,04,235 (Manipur)	47,95,027 (Sikkim)	7,84,060
<b>Wages per Worker</b> (₹)	43,643 (Tripura)	2,43,198 (Jharkhand)	1,68,581

**Figure 6: Total Number of Persons Engaged in the Factory Sector by State/UT**

Statement 7A: Value of Principal Characteristics by State/UT (Arranged in Descending Order of GVA)

State/UT	No. of Operating Factories (no.)	Fixed Capital (₹ Lakhs)	Working Capital (₹ Lakhs)	Invested Capital (₹ Lakhs)	Gross Value of Plant and Machinery (₹ Lakhs)	Total Persons Engaged (no.)	Total Emoluments (₹ Lakhs)	Total Input (₹ Lakhs)	Total Output (₹ Lakhs)	GVA (₹ Lakhs)	NVA (₹ Lakhs)	% Share in Aggregate GVA
Maharashtra	19104	42383056	13578802	62437597	40414655	2035306	7962167	109817639	133055982	23238342	19621798	15.11
Gujarat	21032	70945687	7911443	92359463	67025059	1944548	5734474	138979298	161877155	22897857	18802760	14.89
Tamilnadu	32148	28276628	10453794	42233024	27314287	2554345	6355304	77006107	93834701	16828594	14079958	10.94
Karnataka	10969	20712231	6144195	29230865	20719342	1076026	3505600	47332118	57908174	10576055	8847531	6.88
Haryana	8311	13997025	5643826	22023669	13179576	1016463	3137567	53057326	62391961	9334635	7888296	6.07
Uttar Pradesh	12819	14392066	5923912	23196050	13657682	1101163	2934079	49616067	57905351	8289283	7100261	5.39
Telangana	12129	9955058	5225241	14562863	9510679	780204	1738621	21131316	26876887	5745571	4854721	3.74
Madhya Pradesh	4086	15604439	895480	19639179	16347873	411134	1116779	23599259	29291311	5692052	4699759	3.70
Rajasthan	8564	12270956	4052353	16707954	12734665	591685	1671110	27598966	33277014	5678048	4669013	3.69
Uttarakhand	2430	5605314	2727060	8060581	4903997	411486	1022504	20044207	25569341	5525134	5005064	3.59
Odisha	2700	30927574	-2010373	34939188	28499532	281520	995449	24933019	30238991	5305972	3722012	3.45
West Bengal	8161	12418268	170256	17891930	11754163	701692	1671657	31433544	36533341	5099797	4181318	3.32
Andhra Pradesh	13156	18875049	3980924	25433421	13767208	633142	1569781	32713649	37614334	4900685	3112374	3.19
Jharkhand	2459	10212081	1989512	12513881	9764147	238472	801859	13092339	16825465	3733126	3130772	2.43
Punjab	10888	4990543	3969390	9075728	5134329	704770	1346898	19643701	23063541	3419840	2939522	2.22
Himachal Pradesh	2132	4481462	1234909	5909035	4333449	218196	689057	8409638	11638767	3229128	2836230	2.10
Chhattisgarh	3240	11523679	1252319	14011199	10970165	213167	690610	14671040	17133370	2462330	1874773	1.60
Kerala	7148	4795992	1563296	6913465	2993652	349971	875662	19739583	22077459	2337875	1979664	1.52
Assam	4277	3063797	970637	3954367	2373705	237953	377559	6433955	8100540	1666585	1415078	1.08
Goa	694	1135862	1022638	1987864	1384897	76522	317588	3710831	5224251	1513420	1373321	0.98
Dadra and Nagar Haveli	960	3102487	831166	4232549	2868877	128024	341800	9128448	10374254	1245806	1032085	0.81
Sikkim	80	743555	294388	972075	313238	22624	80804	747285	1910564	1163279	1084827	0.76
Daman and Diu	1142	1135121	924069	1829607	741503	114583	301584	4207360	5024273	816913	698431	0.53
Puducherry	613	541476	389669	970187	647138	56477	167020	3042646	3794251	751604	694046	0.49
Bihar	2987	2353563	348081	3104131	1731946	130004	200972	6113678	6841844	728166	595922	0.47
Jammu and Kashmir	946	867609	506032	1307441	790937	74661	157215	2505804	3233252	727447	650387	0.47
Delhi	2527	735863	627124	1410431	431385	110483	343798	4403596	5011126	607530	530066	0.40
Meghalaya	143	362247	101269	491441	412798	12848	33385	553383	713670	160287	120267	0.10
Chandigarh	180	98553	95413	165329	58498	9604	37580	390967	442146	51179	42473	0.03
Tripura	616	45781	7810	77676	17174	25050	14384	149729	181849	32120	26736	0.02
Nagaland	184	20221	17832	31530	10401	5936	3939	41498	57320	15822	14690	0.01
Arunachal Pradesh	112	17139	21461	27829	12045	3103	4029	91013	106282	15270	12463	0.01
Manipur	196	15082	1670	22511	4141	8760	6428	35685	46742	11057	9131	0.01
A&N Islands	13	1511	862	2414	1326	289	718	3287	4402	1116	889	0.00
<b>All India</b>	<b>197145</b>	<b>346606975</b>	<b>80866459</b>	<b>477726474</b>	<b>324824469</b>	<b>16280211</b>	<b>46207983</b>	<b>774377980</b>	<b>928179908</b>	<b>153801928</b>	<b>127646637</b>	<b>100.00</b>

Statement 7B: Percentage Distribution of Principal Characteristics by State/UT (Arranged in Descending Order of GVA)

State/UT	No. of Operating Factories	Fixed Capital	Working Capital	Invested Capital	Gross Value of Plant and Machinery	Total Persons Engaged	Total Emoluments	Total Input	Total Output	GVA	NVA
Maharashtra	9.69	12.23	16.79	13.07	12.44	12.50	17.23	14.18	14.34	15.11	15.37
Gujarat	10.67	20.47	9.78	19.33	20.63	11.94	12.41	17.95	17.44	14.89	14.73
Tamilnadu	16.31	8.16	12.93	8.84	8.41	15.69	13.75	9.94	10.11	10.94	11.03
Karnataka	5.56	5.98	7.60	6.12	6.38	6.61	7.59	6.11	6.24	6.88	6.93
Haryana	4.22	4.04	6.98	4.61	4.06	6.24	6.79	6.85	6.72	6.07	6.18
Uttar Pradesh	6.50	4.15	7.33	4.86	4.20	6.76	6.35	6.41	6.24	5.39	5.56
Telangana	6.15	2.87	6.46	3.05	2.93	4.79	3.76	2.73	2.90	3.74	3.80
Madhya Pradesh	2.07	4.50	1.11	4.11	5.03	2.53	2.42	3.05	3.16	3.70	3.68
Rajasthan	4.34	3.54	5.01	3.50	3.92	3.63	3.62	3.56	3.59	3.69	3.66
Uttarakhand	1.23	1.62	3.37	1.69	1.51	2.53	2.21	2.59	2.75	3.59	3.92
Odisha	1.37	8.92	-2.49	7.31	8.77	1.73	2.15	3.22	3.26	3.45	2.92
West Bengal	4.14	3.58	0.21	3.75	3.62	4.31	3.62	4.06	3.94	3.32	3.28
Andhra Pradesh	6.67	5.45	4.92	5.32	4.24	3.89	3.40	4.22	4.05	3.19	2.44
Jharkhand	1.25	2.95	2.46	2.62	3.01	1.46	1.74	1.69	1.81	2.43	2.45
Punjab	5.52	1.44	4.91	1.90	1.58	4.33	2.91	2.54	2.48	2.22	2.30
Himachal Pradesh	1.08	1.29	1.53	1.24	1.33	1.34	1.49	1.09	1.25	2.10	2.22
Chattisgarh	1.64	3.32	1.55	2.93	3.38	1.31	1.49	1.89	1.85	1.60	1.47
Kerala	3.63	1.38	1.93	1.45	0.92	2.15	1.90	2.55	2.38	1.52	1.55
Assam	2.17	0.88	1.20	0.83	0.73	1.46	0.82	0.83	0.87	1.08	1.11
Goa	0.35	0.33	1.26	0.42	0.43	0.47	0.69	0.48	0.56	0.98	1.08
Dadra and Nagar Haveli	0.49	0.90	1.03	0.89	0.88	0.79	0.74	1.18	1.12	0.81	0.81
Sikkim	0.04	0.21	0.36	0.20	0.10	0.14	0.17	0.10	0.21	0.76	0.85
Daman and Diu	0.58	0.33	1.14	0.38	0.23	0.70	0.65	0.54	0.54	0.53	0.55
Puducherry	0.31	0.16	0.48	0.20	0.20	0.35	0.36	0.39	0.41	0.49	0.54
Bihar	1.52	0.68	0.43	0.65	0.53	0.80	0.43	0.79	0.74	0.47	0.47
Jammu and Kashmir	0.48	0.25	0.63	0.27	0.24	0.46	0.34	0.32	0.35	0.47	0.51
Delhi	1.28	0.21	0.78	0.30	0.13	0.68	0.74	0.57	0.54	0.40	0.42
Meghalaya	0.07	0.10	0.13	0.10	0.13	0.08	0.07	0.07	0.08	0.10	0.09
Chandigarh	0.09	0.03	0.12	0.03	0.02	0.06	0.08	0.05	0.05	0.03	0.03
Tripura	0.31	0.01	0.01	0.02	0.01	0.15	0.03	0.02	0.02	0.02	0.02
Nagaland	0.09	0.01	0.02	0.01	0.00	0.04	0.01	0.01	0.01	0.01	0.01
Arunachal Pradesh	0.06	0.00	0.03	0.01	0.00	0.02	0.01	0.01	0.01	0.01	0.01
Manipur	0.10	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.01	0.01	0.01
A&N Islands	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>All India</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>



## Statement 8A: Value of Principal Characteristics by State/UT (Arranged in Descending Order of GVA)

(Only for Selected Manufacturing Sector)

State/UT	No. of Operating Factories (no.)	Fixed Capital (₹ Lakhs)	Working Capital (₹ Lakhs)	Invested Capital (₹ Lakhs)	Gross Value of Plant and Machinery (₹ Lakhs)	Total Persons Engaged (no.)	Total Emoluments (₹ Lakhs)	Total Input (₹ Lakhs)	Total Output (₹ Lakhs)	GVA (₹ Lakhs)	NVA (₹ Lakhs)	% Share in Aggregate GVA
Maharashtra	17787	37530990	13246846	56943899	37915313	1964600	7749546	105549786	127898169	22348383	18979121	15.47
Gujarat	19666	65478182	7743515	86312739	60739607	1890147	5595594	130770680	152517911	21747231	17932548	15.05
Tamilnadu	30139	24181897	10415323	37735462	23316894	2487098	6205026	74884877	90961797	16076920	13578754	11.13
Karnataka	9781	18914028	5660370	27206990	18833108	1034727	3391973	45843621	55924653	10081032	8448014	6.98
Haryana	7984	13316941	5487939	21164894	12617234	992351	3073034	51846344	60980238	9133894	7733213	6.32
Uttar Pradesh	11453	12115683	5269207	20662506	11309085	1057563	2828702	48445225	55956578	7511353	6472043	5.20
Rajasthan	8165	9302815	3968161	13608403	9401631	569445	1612557	26694134	31819098	5124963	4306840	3.55
Uttarakhand	2365	4163973	2705188	6563840	4245973	405816	975332	19809756	24924712	5114956	4691710	3.54
Odisha	2578	28468974	-798366	32335232	25972253	269702	961446	23955030	28935216	4980186	3512498	3.45
Telangana	10980	6988943	4374946	11045649	6524234	725203	1620656	18641582	23617775	4976193	4280487	3.44
West Bengal	7643	11178127	72485	16568537	10529933	682847	1613483	30955594	35663360	4707766	3890408	3.26
Madhya Pradesh	3685	8314842	1516596	12082123	8558191	386882	1041982	21084809	25766699	4681889	4026693	3.24
Andhra Pradesh	11930	13042926	4248301	19334224	12263781	599440	1507786	31957937	36562596	4604659	3621737	3.19
Jharkhand	2288	8859307	1788284	11050189	8275012	225319	757683	12352148	15859531	3507382	2991798	2.43
Punjab	10450	4668874	3851727	8628102	4887131	685112	1306601	19228776	22547190	3318414	2858070	2.30
Himachal Pradesh	2029	2901412	1307777	4320097	2763621	212884	664414	8337848	11213263	2875415	2561172	1.99
Chattisgarh	3089	8323510	2159409	10746620	8350104	204346	667050	14133685	16530200	2396515	1887490	1.66
Kerala	6356	4586296	1529905	6639739	2865952	314016	803779	19147167	21347610	2200444	1863533	1.52
Assam	4136	3004929	946888	3870225	2330651	232316	367948	6322686	7962436	1639750	1392479	1.13
Goa	652	1105240	1017846	1944464	1350682	73779	310293	3646230	5146391	1500161	1363060	1.04
Dadra and Nagar Haveli	960	3102487	831166	4232549	2868877	128024	341800	9128448	10374254	1245806	1032085	0.86
Sikkim	77	742803	294328	971323	313036	22549	80703	747175	1910222	1163048	1084634	0.80
Daman and Diu	1142	1135121	924069	1829607	741503	114583	301584	4207360	5024273	816913	698431	0.57
Puducherry	597	528691	390521	948202	644914	55858	164926	3002190	3750699	748509	691742	0.52
Bihar	2746	1439132	299510	2173898	1112124	124130	190484	5985333	6622764	637431	533836	0.44
Jammu and Kashmir	911	451310	496473	869305	400687	68816	137341	2380669	2943312	562643	513029	0.39
Delhi	2298	581891	673352	1210616	322956	93455	292544	4174808	4691040	516232	457032	0.36
Meghalaya	134	342365	98836	465013	392334	12514	32687	537955	691742	153788	115404	0.11
Chandigarh	144	76223	84532	118010	57690	7244	29715	263509	309125	45616	38622	0.03
Tripura	588	42942	5637	68271	16906	24449	13411	129019	158949	29930	24830	0.02
Arunachal Pradesh	112	17139	21461	27829	12045	3103	4029	91013	106282	15270	12463	0.01
Nagaland	162	18086	16544	28526	10331	5571	3567	30547	44459	13912	12897	0.01
Manipur	190	14500	1851	21617	4124	8575	6206	34744	45361	10617	8748	0.01
A&N Islands	8	1182	237	1605	1250	177	454	2126	2873	746	557	0.00
<b>All India</b>	<b>183225</b>	<b>294941762</b>	<b>80650865</b>	<b>421730305</b>	<b>279949166</b>	<b>15682640</b>	<b>44654337</b>	<b>744322812</b>	<b>888810777</b>	<b>144487965</b>	<b>121615978</b>	<b>100.00</b>

**Statement 8B: Percentage Distribution of Principal Characteristics by State/UT (Arranged in Descending Order of GVA)**  
**(Only for Selected Manufacturing Sector)**

<i>State/UT</i>	<i>No. of Operating Factories</i>	<i>Fixed Capital</i>	<i>Working Capital</i>	<i>Invested Capital</i>	<i>Gross Value of Plant and Machinery</i>	<i>Total Persons Engaged</i>	<i>Total Emoluments</i>	<i>Total Input</i>	<i>Total Output</i>	<i>GVA</i>	<i>NVA</i>
Maharashtra	9.71	12.72	16.42	13.50	13.54	12.53	17.35	14.18	14.39	15.47	15.61
Gujarat	10.73	22.20	9.60	20.47	21.70	12.05	12.53	17.57	17.16	15.05	14.75
Tamilnadu	16.45	8.20	12.91	8.95	8.33	15.86	13.90	10.06	10.23	11.13	11.17
Karnataka	5.34	6.41	7.02	6.45	6.73	6.60	7.60	6.16	6.29	6.98	6.95
Haryana	4.36	4.52	6.80	5.02	4.51	6.33	6.88	6.97	6.86	6.32	6.36
Uttar Pradesh	6.25	4.11	6.53	4.90	4.04	6.74	6.33	6.51	6.30	5.20	5.32
Rajasthan	4.46	3.15	4.92	3.23	3.36	3.63	3.61	3.59	3.58	3.55	3.54
Uttarakhand	1.29	1.41	3.35	1.56	1.52	2.59	2.18	2.66	2.80	3.54	3.86
Odisha	1.41	9.65	-0.99	7.67	9.28	1.72	2.15	3.22	3.26	3.45	2.89
Telangana	5.99	2.37	5.42	2.62	2.33	4.62	3.63	2.50	2.66	3.44	3.52
West Bengal	4.17	3.79	0.09	3.93	3.76	4.35	3.61	4.16	4.01	3.26	3.20
Madhya Pradesh	2.01	2.82	1.88	2.86	3.06	2.47	2.33	2.83	2.90	3.24	3.31
Andhra Pradesh	6.51	4.42	5.27	4.58	4.38	3.82	3.38	4.29	4.11	3.19	2.98
Jharkhand	1.25	3.00	2.22	2.62	2.96	1.44	1.70	1.66	1.78	2.43	2.46
Punjab	5.70	1.58	4.78	2.05	1.75	4.37	2.93	2.58	2.54	2.30	2.35
Himachal Pradesh	1.11	0.98	1.62	1.02	0.99	1.36	1.49	1.12	1.26	1.99	2.11
Chattisgarh	1.69	2.82	2.68	2.55	2.98	1.30	1.49	1.90	1.86	1.66	1.55
Kerala	3.47	1.55	1.90	1.57	1.02	2.00	1.80	2.57	2.40	1.52	1.53
Assam	2.26	1.02	1.17	0.92	0.83	1.48	0.82	0.85	0.90	1.13	1.14
Goa	0.36	0.37	1.26	0.46	0.48	0.47	0.69	0.49	0.58	1.04	1.12
Dadra and Nagar Haveli	0.52	1.05	1.03	1.00	1.02	0.82	0.77	1.23	1.17	0.86	0.85
Sikkim	0.04	0.25	0.36	0.23	0.11	0.14	0.18	0.10	0.21	0.80	0.89
Daman and Diu	0.62	0.38	1.15	0.43	0.26	0.73	0.68	0.57	0.57	0.57	0.57
Puducherry	0.33	0.18	0.48	0.22	0.23	0.36	0.37	0.40	0.42	0.52	0.57
Bihar	1.50	0.49	0.37	0.52	0.40	0.79	0.43	0.80	0.75	0.44	0.44
Jammu and Kashmir	0.50	0.15	0.62	0.21	0.14	0.44	0.31	0.32	0.33	0.39	0.42
Delhi	1.25	0.20	0.83	0.29	0.12	0.60	0.66	0.56	0.53	0.36	0.38
Meghalaya	0.07	0.12	0.12	0.11	0.14	0.08	0.07	0.07	0.08	0.11	0.09
Chandigarh	0.08	0.03	0.10	0.03	0.02	0.05	0.07	0.04	0.03	0.03	0.03
Tripura	0.32	0.01	0.01	0.02	0.01	0.16	0.03	0.02	0.02	0.02	0.02
Arunachal Pradesh	0.06	0.01	0.03	0.01	0.00	0.02	0.01	0.01	0.01	0.01	0.01
Nagaland	0.09	0.01	0.02	0.01	0.00	0.04	0.01	0.00	0.01	0.01	0.01
Manipur	0.10	0.00	0.00	0.01	0.00	0.05	0.01	0.00	0.01	0.01	0.01
A&N Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>All India</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Statement 9A: Some Structural Ratios by State/UT

State/UT	Fixed Capital per Factory in Operation (₹ Lakhs)	Total Persons Engaged per Factory in Operation (Number)	Workers per Factory in Operation (Number)	Gross Output per Factory in Operation (₹ Lakhs)	Net Value Added per Factory in Operation (₹ Lakhs)	Output per Person Engaged (₹)	Gross Value Added per Person Engaged (₹)	Net Value Added per Person Engaged (₹)	Wages per Worker (₹)
A&N Islands	116	22	16	339	68	1523183	386159	307612	189671
Andhra Pradesh	1435	48	39	2859	237	5940900	774026	491576	174651
Arunachal Pradesh	153	28	22	949	111	3425137	492104	401644	92591
Assam	716	56	47	1894	331	3404261	700384	594688	99249
Bihar	788	44	37	2291	200	5262795	560110	458387	105223
Chandigarh	548	53	35	2456	236	4603769	532893	442243	232535
Chattisgarh	3557	66	53	5288	579	8037534	1155118	879486	207462
Dadra and Nagar Haveli	3232	133	107	10807	1075	8103367	973103	806165	156691
Daman and Diu	994	100	79	4400	612	4384833	712944	609542	144275
Delhi	291	44	29	1983	210	4535653	549886	479772	191925
Goa	1637	110	78	7528	1979	6827123	1977758	1794675	237287
Gujarat	3373	92	71	7697	894	8324667	1177541	966948	171875
Haryana	1684	122	97	7507	949	6138144	918345	776053	161642
Himachal Pradesh	2102	102	73	5459	1330	5334088	1479921	1299854	172458
Jammu and Kashmir	917	79	62	3418	688	4330577	974333	871120	120822
Jharkhand	4153	97	72	6842	1273	7055531	1565436	1312847	243198
Karnataka	1888	98	77	5279	807	5381671	982881	822241	201374
Kerala	671	49	38	3089	277	6308368	668020	565665	176229
Madhya Pradesh	3819	101	77	7169	1150	7124517	1384476	1143121	155888
Maharashtra	2219	107	77	6965	1027	6537394	1141762	964071	214863
Manipur	77	45	39	238	47	533584	126221	104235	67862
Meghalaya	2533	90	76	4991	841	5554717	1247564	936076	145603
Nagaland	110	32	28	312	80	965633	266543	247473	58624
Odisha	11455	104	86	11200	1379	10741330	1884758	1322113	228757
Puducherry	883	92	72	6190	1132	6718223	1330814	1228900	164471
Punjab	458	65	52	2118	270	3272492	485242	417090	131655
Rajasthan	1433	69	54	3886	545	5624110	959640	789105	171026
Sikkim	9294	283	216	23882	13560	8444855	5141792	4795027	206496
Tamilnadu	880	79	66	2919	438	3673533	658822	551216	151045
Telangana	821	64	54	2216	400	3444854	736419	622237	141912
Tripura	74	41	35	295	43	725944	128224	106731	43643
Uttar Pradesh	1123	86	67	4517	554	5258563	752775	644797	145307
Uttarakhand	2307	169	137	10522	2060	6213903	1342727	1216339	150036
West Bengal	1522	86	68	4477	512	5206464	726786	595891	159549
<b>All India</b>	<b>1758</b>	<b>83</b>	<b>65</b>	<b>4708</b>	<b>647</b>	<b>5701277</b>	<b>944717</b>	<b>784060</b>	<b>168581</b>

**Statement 9B: Some Structural Ratios by State/UT (Only for Selected Manufacturing Sector)**

<i>State/UT</i>	<i>Fixed Capital per Factory in Operation</i>	<i>Total Persons Engaged per Factory in Operation</i>	<i>Workers per Factory in Operation</i>	<i>Gross Output per Factory in Operation</i>	<i>Net Value Added per Factory in Operation</i>	<i>Output per Person Engaged</i>	<i>Gross Value Added per Person Engaged</i>	<i>Net Value Added per Person Engaged</i>	<i>Wages per Worker</i>
	<i>(₹ Lakhs)</i>	<i>(Number)</i>	<i>(Number)</i>	<i>(₹ Lakhs)</i>	<i>(₹ Lakhs)</i>	<i>(₹)</i>	<i>(₹)</i>	<i>(₹)</i>	<i>(₹)</i>
A&N Islands	148	22	18	359	70	1623164	421469	314689	179286
Andhra Pradesh	1093	50	41	3065	304	6099459	768160	604187	176481
Arunachal Pradesh	153	28	22	949	111	3425137	492104	401644	92591
Assam	727	56	48	1925	337	3427416	705827	599390	98772
Bihar	524	45	39	2412	194	5335345	513519	430062	103126
Chandigarh	529	50	35	2147	268	4267325	629707	533158	241439
Chattisgarh	2695	66	53	5351	611	8089319	1172773	923674	209331
Dadra and Nagar Haveli	3232	133	107	10807	1075	8103367	973103	806165	156691
Daman and Diu	994	100	79	4400	612	4384833	712944	609542	144275
Delhi	253	41	28	2041	199	5019571	552386	489040	190942
Goa	1695	113	81	7893	2091	6975414	2033317	1847490	239027
Gujarat	3330	96	74	7755	912	8069103	1150558	948738	172431
Haryana	1668	124	99	7638	969	6145027	920430	779282	161720
Himachal Pradesh	1430	105	75	5526	1262	5267311	1350696	1203083	170546
Jammu and Kashmir	495	76	61	3231	563	4277075	817605	745508	115689
Jharkhand	3872	98	72	6932	1308	7038701	1556629	1327805	244741
Karnataka	1934	106	83	5718	864	5404774	974270	816449	201744
Kerala	722	49	39	3359	293	6798256	700743	593452	177382
Madhya Pradesh	2256	105	81	6992	1093	6660092	1210159	1040806	154126
Maharashtra	2110	110	80	7191	1067	6510138	1137554	966055	214916
Manipur	76	45	39	239	46	528991	123813	102017	67085
Meghalaya	2555	93	79	5162	861	5527745	1228928	922199	147158
Nagaland	112	34	30	274	80	798043	249722	231502	57454
Odisha	11043	105	87	11224	1362	10728588	1846551	1302363	230773
Puducherry	886	94	73	6283	1159	6714703	1340021	1238394	164189
Punjab	447	66	53	2158	273	3291022	484361	417168	131398
Rajasthan	1139	70	55	3897	527	5587739	899993	756322	171474
Sikkim	9647	293	223	24808	14086	8471427	5157870	4810120	206777
Tamilnadu	802	83	68	3018	451	3657347	646413	545968	150719
Telangana	637	66	56	2151	390	3256712	686179	590247	140586
Tripura	73	42	36	270	42	650125	122418	101558	42479
Uttar Pradesh	1058	92	72	4886	565	5291087	710251	611977	145585
Uttarakhand	1761	172	140	10539	1984	6141875	1260413	1156118	147480
West Bengal	1463	89	71	4666	509	5222745	689432	569733	159459
<b>All India</b>	<b>1610</b>	<b>86</b>	<b>68</b>	<b>4851</b>	<b>664</b>	<b>5667482</b>	<b>921324</b>	<b>775482</b>	<b>168465</b>

## **6. Principal Characteristics by Broad Categories**

### **6.1 Principal Characteristics**

**6.1.1** Statements 10A and 10B respectively give the distribution of some of the selected parameters in absolute and percentage terms by broad categories of the factory sector covered in ASI.

**6.1.2** It may be observed that 92.94% of the operating factories covered in ASI 2018-19 are engaged in selected manufacturing activities, 0.57% are engaged in the generation, transmission and distribution of electricity, gas, water supply etc. And the remaining 6.49% in 'other' activity including cotton ginning, cleaning and baling, extraction of salt and some repair services etc. Though the units involved in generation, transmission and distribution of electricity, gas, water supply are a few in numbers, they account for about 12.94% of the total fixed capital as against 1.96% share by the 'other' activities. The selected manufacturing activities account for about 85.09% of the fixed capital. The selected manufacturing sector, consistent with its large number of factories, accounts for 95.76% of the value of total output, which is produced by 96.33% of the total persons engaged. The electricity, gas, water sector contributes about 2.07% to the total output and is produced by 0.65% of the total persons engaged. The corresponding share of the 'other' activities in the value of total output is 2.17% which is produced by 3.02% of the total persons engaged. Of the estimated total net value added by registered manufacturing sector of ₹ 12,76,46,637 Lakhs, ₹ 12,16,15,978 Lakhs (95.28%) originate from selected manufacturing activities, ₹ 35,75,723 Lakhs (2.80%) from electricity, gas, water supply, and the remaining ₹ 24,54,936 Lakhs (1.92%) come from the 'other' activities.

Statement 10A: Principal Characteristics by Broad Categories

<i>Characteristics</i>	<i>Unit</i>	<i>Selected Manufacturing</i>	<i>Electricity, Gas, Water Supply</i>	<i>Others</i>	<i>Total</i>
Factories in Operation	Number	183225	1123	12798	197145
Fixed Capital	₹ Lakhs	294941762	44860868	6804345	346606975
Productive Capital	₹ Lakhs	375592627	42755227	9125580	427473434
Invested Capital	₹ Lakhs	421730305	45941324	10054845	477726474
Workers	Number	12380332	80048	338208	12798588
Total Persons Engaged	Number	15682640	105205	492366	16280211
Wages to Workers	₹ Lakhs	20856554	194350	525131	21576035
Total Emoluments	₹ Lakhs	44654337	461905	1091742	46207983
Total Input	₹ Lakhs	744322812	12775003	17280165	774377980
Total Output	₹ Lakhs	888810777	19191700	20177431	928179908
GVA	₹ Lakhs	144487965	6416697	2897266	153801928
Depreciation	₹ Lakhs	22871988	2840973	442331	26155291
NVA	₹ Lakhs	121615978	3575723	2454936	127646637
Rent Paid for Fixed Assets	₹ Lakhs	464508	18271	29766	512545
Interest Paid	₹ Lakhs	15914601	2931327	497786	19343714
Income	₹ Lakhs	105236869	626125	1927384	107790378
Profit	₹ Lakhs	54838855	101462	711941	55652258

**Statement 10B: Principal Characteristics by Broad Categories  
(Percentage Distribution)**

<i>Characteristics</i>	<i>Selected Manufacturing</i>	<i>Electricity, Gas, Water Supply</i>	<i>Others</i>	<i>Total</i>
Factories in Operation	92.94	0.57	6.49	100.00
Fixed Capital	85.09	12.94	1.96	100.00
Productive Capital	87.86	10.00	2.13	100.00
Invested Capital	88.28	9.62	2.10	100.00
Workers	96.73	0.63	2.64	100.00
Total Persons Engaged	96.33	0.65	3.02	100.00
Wages to Workers	96.67	0.90	2.43	100.00
Total Emoluments	96.64	1.00	2.36	100.00
Total Input	96.12	1.65	2.23	100.00
Total Output	95.76	2.07	2.17	100.00
GVA	93.94	4.17	1.88	100.00
Depreciation	87.45	10.86	1.69	100.00
NVA	95.28	2.80	1.92	100.00
Rent Paid for Fixed Assets	90.63	3.56	5.81	100.00
Interest Paid	82.27	15.15	2.57	100.00
Income	97.63	0.58	1.79	100.00
Profit	98.54	0.18	1.28	100.00

## **7. Distribution of Factories in Operation by Size of Employment**

### **7.1 Principal Characteristics**

**7.1.1** Statements 11A and 11B respectively present the distribution of factories in operation belonging to the whole factory sector, in absolute and percentage terms, by size class of employment as also certain selected characteristics associated with them. Statements 11A and 11B indicate a skewed distribution in the sense that there are larger number of factories with low employment size and a few factories with higher employment size. For example, out of an estimated number of 1,97,145 factories in operation, 1,34,107 factories are found to employ only less than 50 employees each. Further, there is, by and large, heavy concentration of various attributes like fixed capital, output, net value added etc., among the factories belonging to the higher employment size classes. While the lower size classes (up to employment size of 50) has largest concentration of operating factories (68.03%), it utilizes only 7.98% of the fixed capital, provides employment to 12.95% of the total persons engaged, produces 10.80% of the total output and generates 7.85% of national income in the form of net value added by manufacture. On the other hand, the operating factories, each employing at least 200 employees, constitute 11.19% of the operating factories, utilize 80.83% of the total fixed capital, provide gainful employment to 64.07% of the total persons engaged, produce 71.62% of the total output and generate 76.56% of net value added by manufacture. The very large operating factories, employing 5,000 or more employees each, constitute only 0.37% of the operating factories, however, engage 9.23% of total persons engaged, utilize 23.05% of the fixed capital, produce 16.22% of total output and contribute 14.44% to the net value added.

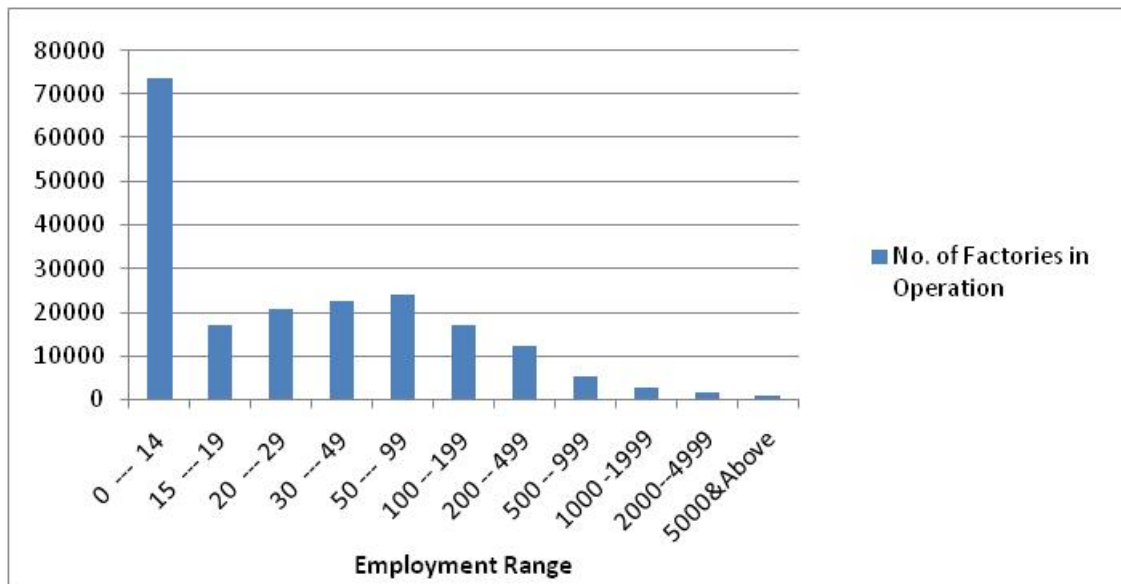
**7.1.2** Statements 12A and 12B present the distribution of factories in operation belonging to selected manufacturing sector only, in absolute and percentage terms, by size class of employment as also certain selected characteristics associated with them.

**7.1.3** Statement 13A and 13B give the distribution of operating factories by size of employment for each State/UT in absolute and percentage terms respectively for the whole factory sector. Statement 14A and 14B give the distribution of operating factories by size of employment for each State/UT in absolute and percentage terms respectively for selected manufacturing sector only.

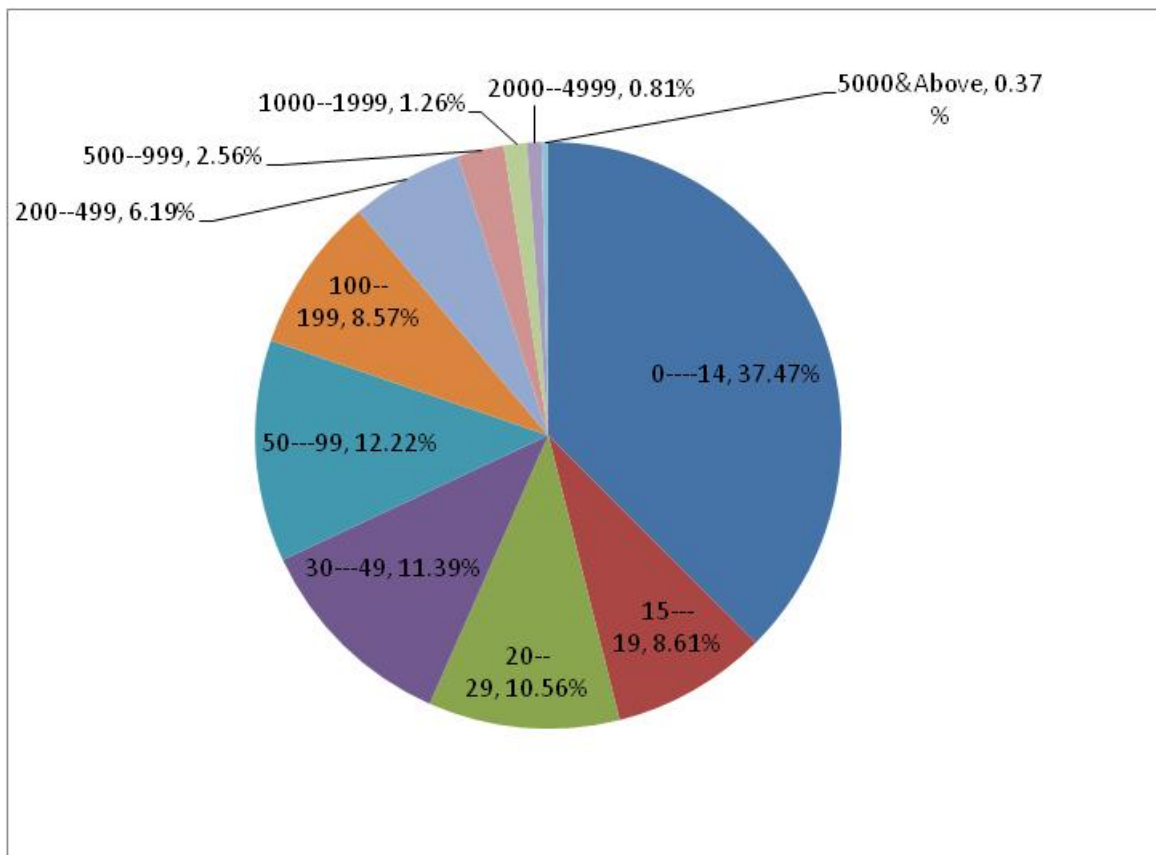
**7.1.4** Figure 7 and Figure 8 graphically display the distribution of operating factories in the factory sector in absolute and percentage term respectively.



**Figure 7: Distribution of Factories in Operation by Size of Employment: All –India**



**Figure 8: Percentage Distribution of Factories in Operation by Size of Employment: All - India**



Statement 11A : Principal Characteristics by Size of Employment

<b>Employment Range</b>	<b>Factories in Operation (Number)</b>	<b>Fixed Capital (₹ Lakhs)</b>	<b>Working Capital (₹ Lakhs)</b>	<b>Productive Capital (₹ Lakhs)</b>	<b>Invested Capital (₹ Lakhs)</b>	<b>Workers (Number)</b>	<b>Total Persons Engaged (Number)</b>	<b>Wages to Workers (₹ Lakhs)</b>
0 --- 14	73876	10234052	3804056	14038108	13794466	317629	486512	338024
15 --- 19	16969	2943570	2310074	5253644	4969337	202686	284044	237109
20 --- 29	20810	5751557	3143600	8895157	8923758	360043	493717	442100
30 --- 49	22452	8733807	5080903	13814710	14630301	638293	844943	817714
50 --- 99	24097	14901908	10504911	25406819	23866138	1269467	1630664	1661064
100 -- 199	16897	23886288	11730493	35616781	37467805	1665057	2109673	2329586
200 -- 499	12202	43936777	13314446	57251223	66594950	2426870	3073820	4023099
500 -- 999	5051	52621340	11888304	64509645	73465399	1883527	2381298	3424656
1000 -1999	2480	50617209	11185532	61802740	66915756	1467619	1836330	2882336
2000--4999	1589	53084287	3937202	57021489	68997217	1289634	1636948	2672103
5000&Above	723	79896178	3966938	83863116	98101348	1277764	1502262	2748244
<b>Total</b>	<b>197145</b>	<b>346606975</b>	<b>80866459</b>	<b>427473434</b>	<b>477726474</b>	<b>12798588</b>	<b>16280211</b>	<b>21576035</b>

<b>Employment Range</b>	<b>Total Emoluments (₹ Lakhs)</b>	<b>Total Input (₹ Lakhs)</b>	<b>Total Output (₹ Lakhs)</b>	<b>Gross Value Added (₹ Lakhs)</b>	<b>Depreciation (₹ Lakhs)</b>	<b>Net Value Added (₹ Lakhs)</b>	<b>Rent Paid for Fixed Assets (₹ Lakhs)</b>	<b>Interest Paid (₹ Lakhs)</b>
0 --- 14	669203	19360081	22030345	2670265	881255	1789010	11017	660851
15 --- 19	511566	12970097	14447349	1477251	278993	1198259	4714	296225
20 --- 29	927384	20463127	23427094	2963967	528404	2435563	12599	517975
30 --- 49	1713773	34973284	40351053	5377769	786391	4591378	21011	823133
50 --- 99	3488187	61475470	71103979	9628509	1437676	8190833	32703	1288539
100 -- 199	4911955	78258993	92146183	13887190	2173075	11714115	61403	1863295
200 -- 499	8586113	117234352	142743221	25508870	3912962	21595907	55458	2894927
500 -- 999	7446733	107154936	132410175	25255239	4404772	20850467	71474	2904169
1000 -1999	6121204	85770662	108868331	23097669	3641755	19455914	73915	2781710
2000--4999	6043304	109141056	130126063	20985007	3587982	17397025	57905	2351449
5000&Above	5788560	127575921	150526113	22950192	4522026	18428166	110347	2961440
<b>Total</b>	<b>46207983</b>	<b>774377980</b>	<b>928179908</b>	<b>153801928</b>	<b>26155291</b>	<b>127646637</b>	<b>512545</b>	<b>19343714</b>

Statement 11B : Principal Characteristics by Size of Employment (Percentage Distribution)

<i>Employment Range</i>	<i>Factories in Operation</i>	<i>Fixed Capital</i>	<i>Working Capital</i>	<i>Productive Capital</i>	<i>Invested Capital</i>	<i>Workers</i>	<i>Total Persons Engaged</i>	<i>Wages to Workers</i>
0 --- 14	37.47	2.95	4.70	3.28	2.89	2.48	2.99	1.57
15 --- 19	8.61	0.85	2.86	1.23	1.04	1.58	1.74	1.10
20 --- 29	10.56	1.66	3.89	2.08	1.87	2.81	3.03	2.05
30 --- 49	11.39	2.52	6.28	3.23	3.06	4.99	5.19	3.79
50 --- 99	12.22	4.30	12.99	5.94	5.00	9.92	10.02	7.70
100 -- 199	8.57	6.89	14.51	8.33	7.84	13.01	12.96	10.80
200 -- 499	6.19	12.68	16.46	13.39	13.94	18.96	18.88	18.65
500 -- 999	2.56	15.18	14.70	15.09	15.38	14.72	14.63	15.87
1000 -1999	1.26	14.60	13.83	14.46	14.01	11.47	11.28	13.36
2000--4999	0.81	15.32	4.87	13.34	14.44	10.08	10.05	12.38
5000&Above	0.37	23.05	4.91	19.62	20.54	9.98	9.23	12.74
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

<i>Employment Range</i>	<i>Total Emoluments</i>	<i>Total Input</i>	<i>Total Output</i>	<i>Gross Value Added</i>	<i>Depreciation</i>	<i>Net Value Added</i>	<i>Rent Paid for Fixed Assets</i>	<i>Interest Paid</i>
0 --- 14	1.45	2.50	2.37	1.74	3.37	1.40	2.15	3.42
15 --- 19	1.11	1.67	1.56	0.96	1.07	0.94	0.92	1.53
20 --- 29	2.01	2.64	2.52	1.93	2.02	1.91	2.46	2.68
30 --- 49	3.71	4.52	4.35	3.50	3.01	3.60	4.10	4.26
50 --- 99	7.55	7.94	7.66	6.26	5.50	6.42	6.38	6.66
100 -- 199	10.63	10.11	9.93	9.03	8.31	9.18	11.98	9.63
200 -- 499	18.58	15.14	15.38	16.59	14.96	16.92	10.82	14.97
500 -- 999	16.12	13.84	14.27	16.42	16.84	16.33	13.94	15.01
1000 -1999	13.25	11.08	11.73	15.02	13.92	15.24	14.42	14.38
2000--4999	13.08	14.09	14.02	13.64	13.72	13.63	11.30	12.16
5000&Above	12.53	16.47	16.22	14.92	17.29	14.44	21.53	15.31
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Statement 12A : Principal Characteristics by Size of Employment (Only for Selected Manufacturing Sector)

Employment Range	Factories in Operation (Number)	Fixed Capital (₹ Lakhs)	Working Capital (₹ Lakhs)	Productive Capital (₹ Lakhs)	Invested Capital (₹ Lakhs)	Workers (Number)	Total Persons Engaged (Number)	Wages to Workers (₹ Lakhs)
0 --- 14	68286	6448681	3534007	9982688	9674112	293593	446705	308573
15 --- 19	15670	1972755	2082562	4055317	3836367	188009	262482	218670
20 --- 29	19109	4460091	2726071	7186162	7289033	332599	453471	407072
30 --- 49	20771	6991766	4724869	11716635	12448153	596471	783611	756342
50 --- 99	22466	12397687	10161683	22559370	20724213	1197754	1526271	1554510
100 -- 199	15910	20642409	11477542	32119951	33646054	1595750	2010219	2222005
200 -- 499	11665	38481880	14132683	52614563	60600654	2361771	2981475	3902130
500 -- 999	4780	34997334	12232671	47230005	55095839	1835512	2317156	3298362
1000 -1999	2359	37299128	11811676	49110804	53186935	1427678	1783780	2797219
2000--4999	1487	51353853	3800164	55154018	67127599	1273431	1615209	2643428
5000&Above	723	79896178	3966938	83863116	98101348	1277764	1502262	2748244
<b>Total</b>	<b>183225</b>	<b>294941762</b>	<b>80650865</b>	<b>375592627</b>	<b>421730305</b>	<b>12380332</b>	<b>15682640</b>	<b>20856554</b>

Employment Range	Total Emoluments (₹ Lakhs)	Total Input (₹ Lakhs)	Total Output (₹ Lakhs)	Gross Value Added (₹ Lakhs)	Depreciation (₹ Lakhs)	Net Value Added (₹ Lakhs)	Rent Paid for Fixed Assets (₹ Lakhs)	Interest Paid (₹ Lakhs)
0 --- 14	608420	17433290	19477126	2043836	610282	1433554	9422	384238
15 --- 19	473954	11525203	12805193	1279991	211193	1068798	3274	234679
20 --- 29	856640	17909304	20515065	2605761	402024	2203737	8460	405894
30 --- 49	1586999	32201393	36837466	4636073	662081	3973992	15721	687622
50 --- 99	3256297	57586839	66500516	8913677	1294583	7619094	27130	1081799
100 -- 199	4671166	75325889	88388046	13062157	2001383	11060774	54411	1563364
200 -- 499	8307240	114697920	138871209	24173289	3491682	20681606	50786	2408612
500 -- 999	7182702	100394370	123461872	23067502	3188764	19878738	58375	2063949
1000 -1999	5936954	81809926	103109170	21299244	3006048	18293197	72347	1918137
2000--4999	5985403	107862757	128319001	20456244	3481921	16974323	54237	2204867
5000&Above	5788560	127575921	150526113	22950192	4522026	18428166	110347	2961440
<b>Total</b>	<b>44654337</b>	<b>744322812</b>	<b>888810777</b>	<b>144487965</b>	<b>22871988</b>	<b>121615978</b>	<b>464508</b>	<b>15914601</b>

**Statement 12B : Principal Characteristics by Size of Employment (Only for Selected Manufacturing Sector)**  
(Percentage Distribution)

<i>Employment Range</i>	<i>Factories in Operation</i>	<i>Fixed Capital</i>	<i>Working Capital</i>	<i>Productive Capital</i>	<i>Invested Capital</i>	<i>Workers</i>	<i>Total Persons Engaged</i>	<i>Wages to Workers</i>
0 --- 14	37.27	2.19	4.38	2.66	2.29	2.37	2.85	1.48
15 --- 19	8.55	0.67	2.58	1.08	0.91	1.52	1.67	1.05
20 --- 29	10.43	1.51	3.38	1.91	1.73	2.69	2.89	1.95
30 --- 49	11.34	2.37	5.86	3.12	2.95	4.82	5.00	3.63
50 --- 99	12.26	4.20	12.60	6.01	4.91	9.67	9.73	7.45
100 -- 199	8.68	7.00	14.23	8.55	7.98	12.89	12.82	10.65
200 -- 499	6.37	13.05	17.52	14.01	14.37	19.08	19.01	18.71
500 -- 999	2.61	11.87	15.17	12.57	13.06	14.83	14.78	15.81
1000 -1999	1.29	12.65	14.65	13.08	12.61	11.53	11.37	13.41
2000--4999	0.81	17.41	4.71	14.68	15.92	10.29	10.30	12.67
5000&Above	0.39	27.09	4.92	22.33	23.26	10.32	9.58	13.18
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

<i>Employment Range</i>	<i>Total Emoluments</i>	<i>Total Input</i>	<i>Total Output</i>	<i>Gross Value Added</i>	<i>Depreciation</i>	<i>Net Value Added</i>	<i>Rent Paid for Fixed Assets</i>	<i>Interest Paid</i>
0 --- 14	1.36	2.34	2.19	1.41	2.67	1.18	2.03	2.41
15 --- 19	1.06	1.55	1.44	0.89	0.92	0.88	0.70	1.47
20 --- 29	1.92	2.41	2.31	1.80	1.76	1.81	1.82	2.55
30 --- 49	3.55	4.33	4.14	3.21	2.89	3.27	3.38	4.32
50 --- 99	7.29	7.74	7.48	6.17	5.66	6.26	5.84	6.80
100 -- 199	10.46	10.12	9.94	9.04	8.75	9.09	11.71	9.82
200 -- 499	18.60	15.41	15.62	16.73	15.27	17.01	10.93	15.13
500 -- 999	16.09	13.49	13.89	15.96	13.94	16.35	12.57	12.97
1000 -1999	13.30	10.99	11.60	14.74	13.14	15.04	15.57	12.05
2000--4999	13.40	14.49	14.44	14.16	15.22	13.96	11.68	13.85
5000&Above	12.96	17.14	16.94	15.88	19.77	15.15	23.76	18.61
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Statement 13A : Distribution of Factories in Operation by Size of Employment for each State/UT

State/UT	Employment Size												No. of Workers	Total Persons Engaged
	0 --- 14	15 --- 19	20 --- 29	30 --- 49	50 --- 99	100 -- 199	200 -- 499	500 -- 999	1000 -- 1999	2000 -- 4999	5000&A bove	Total		
A&N Islands	3	4	0	2	4	0	0	0	0	0	0	13	213	289
Andhra Pradesh	8237	967	1058	774	835	531	452	200	68	27	9	13156	512694	633142
Arunachal Pradesh	56	12	13	18	6	6	1	0	0	0	0	112	2470	3103
Assam	1649	342	273	535	755	564	129	23	5	1	1	4277	200433	237953
Bihar	1514	256	165	155	525	310	36	15	10	1	0	2987	111181	130004
Chandigarh	84	7	35	17	17	8	9	3	0	0	0	180	6221	9604
Chattisgarh	1521	336	419	272	241	207	91	51	26	20	57	3240	170823	213167
D&N Haveli	90	99	90	142	179	124	134	40	34	2	25	960	103140	128024
Daman & Diu	317	106	79	164	175	115	84	55	17	23	7	1142	90356	114583
Delhi	1006	223	301	362	263	207	103	38	23	1	0	2527	74488	110483
Goa	175	70	66	82	102	91	60	33	12	3	0	694	54271	76522
Gujarat	7166	2367	2488	2371	2584	1528	1436	549	279	219	47	21032	1489381	1944548
Haryana	2017	574	893	1228	1225	1123	750	286	106	83	28	8311	802213	1016463
Himachal Pradesh	597	156	229	315	306	238	172	98	19	2	0	2132	155261	218196
Jammu & Kashmir	425	80	93	56	120	85	61	24	2	0	1	946	58923	74661
Jharkhand	1052	199	316	330	260	114	84	27	22	21	33	2459	175993	238472
Karnataka	3445	1027	1191	1260	1307	884	827	434	304	150	140	10969	842367	1076026
Kerala	3142	517	750	742	860	417	406	150	99	61	4	7148	275123	349971
Madhya Pradesh	1472	364	383	512	527	330	264	104	98	24	9	4086	314728	411134
Maharashtra	4673	1681	2200	2394	2904	2214	1764	773	348	122	31	19104	1473792	2035306
Manipur	65	30	23	39	28	10	0	0	0	1	0	196	7558	8760
Meghalaya	58	11	23	15	10	7	12	5	2	0	0	143	10802	12848
Nagaland	93	16	24	11	30	9	0	1	0	0	0	184	5073	5936
Odisha	1423	207	308	232	201	117	94	50	34	14	20	2700	233064	281520
Puducherry	165	45	71	98	96	50	48	32	6	2	0	613	44054	56477
Punjab	3538	1151	1606	1933	1393	597	371	177	65	52	6	10888	564103	704770
Rajasthan	3572	715	965	954	1002	607	470	137	78	46	18	8564	464518	591685
Sikkim	6	6	3	8	14	14	16	6	5	2	0	80	17241	22624
Tamilnadu	11069	2565	2864	3642	4460	3127	2215	971	486	502	246	32148	2112722	2554345
Telangana	7538	670	979	793	840	608	392	168	71	58	13	12129	659251	780204
Tripura	316	18	27	29	132	84	10	0	0	0	0	616	21731	25050
Uttar Pradesh	3825	1229	1587	1787	1508	1554	899	261	112	44	13	12819	859032	1101163
Uttarakhand	390	188	260	290	367	405	335	115	49	23	7	2430	333496	411486
West Bengal	3177	732	1031	891	821	612	477	225	100	85	8	8161	551871	701692
<b>All India</b>	<b>73876</b>	<b>16969</b>	<b>20810</b>	<b>22452</b>	<b>24097</b>	<b>16897</b>	<b>12202</b>	<b>5051</b>	<b>2480</b>	<b>1589</b>	<b>723</b>	<b>197145</b>	<b>12798588</b>	<b>16280211</b>

Statement 13B : Percentage Distribution of Factories in Operation by Size of Employment for each State/UT

State/UT	Employment Size												No. of Workers	Total Persons Engaged
	0 ---	15 ---	20 ---	30 ---	50 ---	100 --	200 --	500 --	1000 -	2000--	5000&	Total		
	14	19	29	49	99	199	499	999	1999	4999	Above			
A&N Islands	23.08	30.77	0.00	15.38	30.77	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
Andhra Pradesh	62.61	7.35	8.04	5.88	6.35	4.04	3.44	1.52	0.52	0.21	0.07	100.00	4.01	3.89
Arunachal Pradesh	50.00	10.71	11.61	16.07	5.36	5.36	0.89	0.00	0.00	0.00	0.00	100.00	0.02	0.02
Assam	38.56	8.00	6.38	12.51	17.65	13.19	3.02	0.54	0.12	0.02	0.02	100.00	1.57	1.46
Bihar	50.69	8.57	5.52	5.19	17.58	10.38	1.21	0.50	0.33	0.03	0.00	100.00	0.87	0.80
Chandigarh	46.67	3.89	19.44	9.44	9.44	4.44	5.00	1.67	0.00	0.00	0.00	100.00	0.05	0.06
Chattisgarh	46.94	10.37	12.93	8.40	7.44	6.39	2.81	1.57	0.80	0.62	1.76	100.00	1.33	1.31
D&N Haveli	9.38	10.31	9.38	14.79	18.65	12.92	13.96	4.17	3.54	0.21	2.60	100.00	0.81	0.79
Daman & Diu	27.76	9.28	6.92	14.36	15.32	10.07	7.36	4.82	1.49	2.01	0.61	100.00	0.71	0.70
Delhi	39.81	8.82	11.91	14.33	10.41	8.19	4.08	1.50	0.91	0.04	0.00	100.00	0.58	0.68
Goa	25.22	10.09	9.51	11.82	14.70	13.11	8.65	4.76	1.73	0.43	0.00	100.00	0.42	0.47
Gujarat	34.07	11.25	11.83	11.27	12.29	7.27	6.83	2.61	1.33	1.04	0.22	100.00	11.64	11.94
Haryana	24.27	6.91	10.74	14.78	14.74	13.51	9.02	3.44	1.28	1.00	0.34	100.00	6.27	6.24
Himachal Pradesh	28.00	7.32	10.74	14.77	14.35	11.16	8.07	4.60	0.89	0.09	0.00	100.00	1.21	1.34
Jammu & Kashmir	44.93	8.46	9.83	5.92	12.68	8.99	6.45	2.54	0.21	0.00	0.11	100.00	0.46	0.46
Jharkhand	42.78	8.09	12.85	13.42	10.57	4.64	3.42	1.10	0.89	0.85	1.34	100.00	1.38	1.46
Karnataka	31.41	9.36	10.86	11.49	11.92	8.06	7.54	3.96	2.77	1.37	1.28	100.00	6.58	6.61
Kerala	43.96	7.23	10.49	10.38	12.03	5.83	5.68	2.10	1.39	0.85	0.06	100.00	2.15	2.15
Madhya Pradesh	36.03	8.91	9.37	12.53	12.90	8.08	6.46	2.55	2.40	0.59	0.22	100.00	2.46	2.53
Maharashtra	24.46	8.80	11.52	12.53	15.20	11.59	9.23	4.05	1.82	0.64	0.16	100.00	11.52	12.50
Manipur	33.16	15.31	11.73	19.90	14.29	5.10	0.00	0.00	0.00	0.51	0.00	100.00	0.06	0.05
Meghalaya	40.56	7.69	16.08	10.49	6.99	4.90	8.39	3.50	1.40	0.00	0.00	100.00	0.08	0.08
Nagaland	50.54	8.70	13.04	5.98	16.30	4.89	0.00	0.54	0.00	0.00	0.00	100.00	0.04	0.04
Odisha	52.70	7.67	11.41	8.59	7.44	4.33	3.48	1.85	1.26	0.52	0.74	100.00	1.82	1.73
Puducherry	26.92	7.34	11.58	15.99	15.66	8.16	7.83	5.22	0.98	0.33	0.00	100.00	0.34	0.35
Punjab	32.49	10.57	14.75	17.75	12.79	5.48	3.41	1.63	0.60	0.48	0.06	100.00	4.41	4.33
Rajasthan	41.71	8.35	11.27	11.14	11.70	7.09	5.49	1.60	0.91	0.54	0.21	100.00	3.63	3.63
Sikkim	7.50	7.50	3.75	10.00	17.50	17.50	20.00	7.50	6.25	2.50	0.00	100.00	0.13	0.14
Tamilnadu	34.43	7.98	8.91	11.33	13.87	9.73	6.89	3.02	1.51	1.56	0.77	100.00	16.51	15.69
Telangana	62.15	5.52	8.07	6.54	6.93	5.01	3.23	1.39	0.59	0.48	0.11	100.00	5.15	4.79
Tripura	51.30	2.92	4.38	4.71	21.43	13.64	1.62	0.00	0.00	0.00	0.00	100.00	0.17	0.15
Uttar Pradesh	29.84	9.59	12.38	13.94	11.76	12.12	7.01	2.04	0.87	0.34	0.10	100.00	6.71	6.76
Uttarakhand	16.05	7.74	10.70	11.93	15.10	16.67	13.79	4.73	2.02	0.95	0.29	100.00	2.61	2.53
West Bengal	38.93	8.97	12.63	10.92	10.06	7.50	5.84	2.76	1.23	1.04	0.10	100.00	4.31	4.31
<b>All India</b>	<b>37.47</b>	<b>8.61</b>	<b>10.56</b>	<b>11.39</b>	<b>12.22</b>	<b>8.57</b>	<b>6.19</b>	<b>2.56</b>	<b>1.26</b>	<b>0.81</b>	<b>0.37</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

**Statement 14A : Distribution of Factories in Operation by Size of Employment for each State/UT  
(Only for Selected Manufacturing Sector)**

State/UT	Employment Size											No. of Workers	Total Persons Engaged	
	0 --- 14	15 --- 19	20 --- 29	30 --- 49	50 --- 99	100 -- 199	200 -- 499	500 -- 999	1000 - 1999	2000-- 4999	5000 & Above			Total
A&N Islands	1	4	0	1	2	0	0	0	0	0	0	8	140	177
Andhra Pradesh	7555	879	889	648	739	490	428	197	68	27	9	11930	487252	599440
Arunachal Pradesh	56	12	13	18	6	6	1	0	0	0	0	112	2470	3103
Assam	1612	335	248	515	718	550	129	23	5	1	1	4136	196674	232316
Bihar	1396	214	134	138	502	304	33	15	9	1	0	2746	106829	124130
Chandigarh	83	6	14	17	10	5	6	3	0	0	0	144	4976	7244
Chattisgarh	1471	324	406	234	219	196	88	49	25	20	57	3089	164327	204346
D&N Haveli	90	99	90	142	179	124	134	40	34	2	25	960	103140	128024
Daman & Diu	317	106	79	164	175	115	84	55	17	23	7	1142	90356	114583
Delhi	955	218	270	340	241	165	71	24	14	1	0	2298	63724	93455
Goa	171	69	60	70	93	83	58	33	12	3	0	652	52497	73779
Gujarat	6559	2165	2345	2271	2463	1472	1394	537	265	148	47	19666	1452644	1890147
Haryana	1955	511	865	1180	1170	1082	724	282	105	83	28	7984	787280	992351
Himachal Pradesh	563	153	210	285	299	231	171	96	19	2	0	2029	151665	212884
Jammu & Kashmir	413	80	91	56	114	82	56	18	1	0	1	911	55694	68816
Jharkhand	1010	170	302	304	223	102	82	21	21	20	33	2288	165657	225319
Karnataka	2967	932	1073	1165	1189	825	734	374	232	150	140	9781	813832	1034727
Kerala	2944	461	659	563	680	340	400	143	99	61	4	6356	248694	314016
Madhya Pradesh	1325	339	342	431	452	320	251	100	93	24	9	3685	296800	386882
Maharashtra	4251	1592	1994	2192	2764	2061	1708	726	346	122	31	17787	1423542	1964600
Manipur	65	27	22	38	27	10	0	0	0	1	0	190	7410	8575
Meghalaya	52	10	22	15	10	7	11	5	2	0	0	134	10537	12514
Nagaland	77	13	23	11	28	9	0	1	0	0	0	162	4823	5571
Odisha	1383	200	299	223	178	103	80	48	31	14	20	2578	224853	269702
Puducherry	163	42	70	94	95	48	45	32	6	2	0	597	43735	55858
Punjab	3340	1103	1550	1907	1353	557	349	167	65	52	6	10450	552952	685112
Rajasthan	3403	691	902	923	952	578	453	124	77	45	18	8165	448366	569445
Sikkim	5	5	3	7	14	14	16	6	5	2	0	77	17190	22549
Tamilnadu	10230	2395	2618	3441	4249	2972	2114	917	484	474	246	30139	2063331	2487098
Telangana	7043	605	866	661	646	503	361	158	66	58	13	10980	617194	725203
Tripura	300	14	26	26	129	83	10	0	0	0	0	588	21340	24449
Uttar Pradesh	3183	1068	1397	1622	1389	1488	878	260	111	43	13	11453	830321	1057563
Uttarakhand	360	186	258	287	353	397	330	115	48	23	7	2365	330299	405816
West Bengal	2989	642	968	784	804	587	465	211	99	85	8	7643	539787	682847
<b>All India</b>	<b>68286</b>	<b>15670</b>	<b>19109</b>	<b>20771</b>	<b>22466</b>	<b>15910</b>	<b>11665</b>	<b>4780</b>	<b>2359</b>	<b>1487</b>	<b>723</b>	<b>183225</b>	<b>12380332</b>	<b>15682640</b>



**Statement 14B : Percentage Distribution of Factories in Operation by Size of Employment for each State/UT  
(Only for Selected Manufacturing Sector)**

State/UT	Employment Size												No. of Workers	Total Persons Engaged
	0 --- 14	15 --- 19	20 --- 29	30 --- 49	50 --- 99	100 -- 199	200 -- 499	500 -- 999	1000 - 1999	2000-- 4999	5000 & Above	Total		
A&N Islands	12.50	50.00	0.00	12.50	25.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
Andhra Pradesh	63.33	7.37	7.45	5.43	6.19	4.11	3.59	1.65	0.57	0.23	0.08	100.00	3.94	3.82
Arunachal Pradesh	50.00	10.71	11.61	16.07	5.36	5.36	0.89	0.00	0.00	0.00	0.00	100.00	0.02	0.02
Assam	38.97	8.10	6.00	12.45	17.36	13.30	3.12	0.56	0.12	0.02	0.02	100.00	1.59	1.48
Bihar	50.84	7.79	4.88	5.03	18.28	11.07	1.20	0.55	0.33	0.04	0.00	100.00	0.86	0.79
Chandigarh	57.64	4.17	9.72	11.81	6.94	3.47	4.17	2.08	0.00	0.00	0.00	100.00	0.04	0.05
Chattisgarh	47.62	10.49	13.14	7.58	7.09	6.35	2.85	1.59	0.81	0.65	1.85	100.00	1.33	1.30
D&N Haveli	9.38	10.31	9.38	14.79	18.65	12.92	13.96	4.17	3.54	0.21	2.60	100.00	0.83	0.82
Daman & Diu	27.76	9.28	6.92	14.36	15.32	10.07	7.36	4.82	1.49	2.01	0.61	100.00	0.73	0.73
Delhi	41.56	9.49	11.75	14.80	10.49	7.18	3.09	1.04	0.61	0.04	0.00	100.00	0.51	0.60
Goa	26.23	10.58	9.20	10.74	14.26	12.73	8.90	5.06	1.84	0.46	0.00	100.00	0.42	0.47
Gujarat	33.35	11.01	11.92	11.55	12.52	7.48	7.09	2.73	1.35	0.75	0.24	100.00	11.73	12.05
Haryana	24.49	6.40	10.83	14.78	14.65	13.55	9.07	3.53	1.32	1.04	0.35	100.00	6.36	6.33
Himachal Pradesh	27.75	7.54	10.35	14.05	14.74	11.38	8.43	4.73	0.94	0.10	0.00	100.00	1.23	1.36
Jammu & Kashmir	45.33	8.78	9.99	6.15	12.51	9.00	6.15	1.98	0.11	0.00	0.11	100.00	0.45	0.44
Jharkhand	44.14	7.43	13.20	13.29	9.75	4.46	3.58	0.92	0.92	0.87	1.44	100.00	1.34	1.44
Karnataka	30.33	9.53	10.97	11.91	12.16	8.43	7.50	3.82	2.37	1.53	1.43	100.00	6.57	6.60
Kerala	46.32	7.25	10.37	8.86	10.70	5.35	6.29	2.25	1.56	0.96	0.06	100.00	2.01	2.00
Madhya Pradesh	35.96	9.20	9.28	11.70	12.27	8.68	6.81	2.71	2.52	0.65	0.24	100.00	2.40	2.47
Maharashtra	23.90	8.95	11.21	12.32	15.54	11.59	9.60	4.08	1.95	0.69	0.17	100.00	11.50	12.53
Manipur	34.21	14.21	11.58	20.00	14.21	5.26	0.00	0.00	0.00	0.53	0.00	100.00	0.06	0.05
Meghalaya	38.81	7.46	16.42	11.19	7.46	5.22	8.21	3.73	1.49	0.00	0.00	100.00	0.09	0.08
Nagaland	47.53	8.02	14.20	6.79	17.28	5.56	0.00	0.62	0.00	0.00	0.00	100.00	0.04	0.04
Odisha	53.65	7.76	11.60	8.65	6.90	4.00	3.10	1.86	1.20	0.54	0.78	100.00	1.82	1.72
Puducherry	27.30	7.04	11.73	15.75	15.91	8.04	7.54	5.36	1.01	0.34	0.00	100.00	0.35	0.36
Punjab	31.96	10.56	14.83	18.25	12.95	5.33	3.34	1.60	0.62	0.50	0.06	100.00	4.47	4.37
Rajasthan	41.68	8.46	11.05	11.30	11.66	7.08	5.55	1.52	0.94	0.55	0.22	100.00	3.62	3.63
Sikkim	6.49	6.49	3.90	9.09	18.18	18.18	20.78	7.79	6.49	2.60	0.00	100.00	0.14	0.14
Tamilnadu	33.94	7.95	8.69	11.42	14.10	9.86	7.01	3.04	1.61	1.57	0.82	100.00	16.67	15.86
Telangana	64.14	5.51	7.89	6.02	5.88	4.58	3.29	1.44	0.60	0.53	0.12	100.00	4.99	4.62
Tripura	51.02	2.38	4.42	4.42	21.94	14.12	1.70	0.00	0.00	0.00	0.00	100.00	0.17	0.16
Uttar Pradesh	27.79	9.33	12.20	14.16	12.13	12.99	7.67	2.27	0.97	0.38	0.11	100.00	6.71	6.74
Uttarakhand	15.22	7.86	10.91	12.14	14.93	16.79	13.95	4.86	2.03	0.97	0.30	100.00	2.67	2.59
West Bengal	39.11	8.40	12.67	10.26	10.52	7.68	6.08	2.76	1.30	1.11	0.10	100.00	4.36	4.35
<b>All India</b>	<b>37.27</b>	<b>8.55</b>	<b>10.43</b>	<b>11.34</b>	<b>12.26</b>	<b>8.68</b>	<b>6.37</b>	<b>2.61</b>	<b>1.29</b>	<b>0.81</b>	<b>0.39</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

## ***8. Distribution of Factories in Operation by Size of Capital***

### **8.1 *Principal Characteristics***

**8.1.1** The Statements 15A and 15B give the distribution of factories by size of capital, namely, the gross value of plant and machinery installed in the factory and their shares in certain selected characteristics. The range of capital defined in Statement 15A and 15B is as per the definition of MSME for Manufacturing Sector in Micro, Small and Medium Enterprises Development Act (MSME), 2006. Statement 15B shows that the factories with an investment in plant and machinery upto ₹ 5 Crores, account for 83.41% of the total factories which have operated during 2018-19. While these factories share 9.84% of total fixed capital to work with, they provide gainful employment to 39.45% of the total persons engaged. Their contribution to the total output and net value added by manufacture are 19.83% and 18.16% respectively. As against this, the operational factories, with gross investment in plant and machinery of ₹ 10 Crores & above, are very few (12.12%) in number, account for about 88.18% of total fixed capital, 54.18% of total persons engaged, 75.24% of the gross output and 77.37% of the total net value added by manufacture.

Statement 15A: Principal Characteristics by Size of Capital

Capital Range (₹ Lakhs) *	Factories in Operation	Fixed Capital	Productive Capital	Invested Capital	Workers	Total Persons Engaged	Wages to Workers	Total Emoluments
	(Number)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(Number)	(Number)	(₹ Lakhs)	(₹ Lakhs)
Upto 25	129145	23930323	41540241	40435643	3677912	4509724	4121800	6998646
25 -- 500	35282	10184584	20282388	20731245	1406415	1913640	2050301	4674664
500 -- 1000	8825	6841523	12559397	12761744	803083	1035621	1200986	2600790
1000 & above	23893	305650545	353091408	403797842	6911178	8821226	14202948	31933882
<b>Total</b>	<b>197145</b>	<b>346606975</b>	<b>427473434</b>	<b>477726474</b>	<b>12798588</b>	<b>16280211</b>	<b>21576035</b>	<b>46207983</b>

Capital Range (₹ Lakhs) *	Total Input	Total Output	Gross Value Added	Depreciation	Net Value Added	Rent Paid for Fixed Assets	Interest Paid
	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)
Upto 25	96930286	113206785	16276499	2732478	13544020	65662	2077614
25 -- 500	60216901	70808122	10591221	947552	9643669	43239	1221478
500 -- 1000	39386549	45793927	6407378	705583	5701795	19653	758511
1000 & above	577844244	698371074	120526830	21769678	98757152	383991	15286110
<b>Total</b>	<b>774377980</b>	<b>928179908</b>	<b>153801928</b>	<b>26155291</b>	<b>127646637</b>	<b>512545</b>	<b>19343714</b>

\* In terms of Gross Value of Plant and Machinery

**Statement 15B: Principal Characteristics by Size of Capital  
(Percentage Distribution)**

<i>Capital Range (₹ Lakhs) *</i>	<i>Factories in Operation</i>	<i>Fixed Capital</i>	<i>Productive Capital</i>	<i>Invested Capital</i>	<i>Workers</i>	<i>Total Persons Engaged</i>	<i>Wages to Workers</i>	<i>Total Emoluments</i>
Upto 25	65.51	6.90	9.72	8.46	28.74	27.70	19.10	15.15
25 -- 500	17.90	2.94	4.74	4.34	10.99	11.75	9.50	10.12
500 -- 1000	4.48	1.97	2.94	2.67	6.27	6.36	5.57	5.63
1000 & above	12.12	88.18	82.60	84.52	54.00	54.18	65.83	69.11
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

<i>Capital Range (₹ Lakhs) *</i>	<i>Total Input</i>	<i>Total Output</i>	<i>Gross Value Added</i>	<i>Depreciation</i>	<i>Net Value Added</i>	<i>Rent Paid for Fixed Assets</i>	<i>Interest Paid</i>
Upto 25	12.52	12.20	10.58	10.45	10.61	12.81	10.74
25 -- 500	7.78	7.63	6.89	3.62	7.55	8.44	6.31
500 -- 1000	5.09	4.93	4.17	2.70	4.47	3.83	3.92
1000 & above	74.62	75.24	78.36	83.23	77.37	74.92	79.02
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

\* In terms of Gross Value of Plant and Machinery

## ***9. Distribution of Factories in Operation by Size of Total Output***

### ***9.1 Principal Characteristics***

**9.1.1** The distribution of factories along with related characteristics, classified by size class of total output, is presented in Statement 16A. The percentage distribution of these characteristics is given in Statement 16B. It is observed that 27.47% of the operating factories, that produce gross output up to one Crore, share 1.57% of fixed capital, provide employment to 3.82% of total persons engaged, pay emoluments to the extent of 1.09% of total emoluments, contribute 0.18% to the total output. About 36.33% of the operating factories, producing gross output of more than ₹ 10 Crores, consume 94.76% of fixed capital, provide 83.13% of total employment and pay 91.68% of total emoluments. This group of factories contributes about 96.84% of total output and 96.41% of total net value added.

Statement 16A: Principal Characteristics by Total Output

Total Output Range (₹ Lakhs)	Factories in Operation	Fixed Capital	Productive Capital	Invested Capital	Workers	Total Persons Engaged	Wages to Workers	Total Emoluments
	(Number)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(Number)	(Number)	(₹ Lakhs)	(₹ Lakhs)
Upto 25	27758	4190411	3602470	4545040	72312	121188	43852	91638
25 --- 50	9451	379752	591828	523032	100536	124947	69413	100949
50 -- 100	16952	864189	1422472	1330638	316349	375424	217606	307734
100 -- 200	21239	1980538	3008642	2917615	383483	474418	342487	530078
200 -- 500	28333	3857663	5445266	6008892	604111	774072	693103	1182024
500 -- 1000	21809	6859552	8845951	9844401	681241	877297	878202	1633548
1000 -- 2000	20267	9812165	13496293	14557276	956509	1258264	1262653	2500801
2000 -- 5000	22194	18866347	26662961	29065786	1771786	2250058	2528812	5020733
5000 -- 10000	11308	18681210	28701603	29220235	1445814	1811975	2228325	4560976
10000 -- 50000	13625	60106557	84660079	94755823	3514675	4398616	5773336	12240619
50000 & above	4210	221008591	251035869	284957735	2951772	3813951	7538246	18038883
<b>Total</b>	<b>197145</b>	<b>346606975</b>	<b>427473434</b>	<b>477726474</b>	<b>12798588</b>	<b>16280211</b>	<b>21576035</b>	<b>46207983</b>

Total Output Range (₹ Lakhs)	Total Input	Total Output	Gross Value Added	Depreciation	Net Value Added	Rent Paid for Fixed Assets	Interest Paid
	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)
Upto 25	165200	60999	-104201	343360	-447561	1943	52983
25 --- 50	235635	350800	115166	35489	79677	1507	14416
50 -- 100	792937	1246517	453580	84795	368785	4901	60702
100 -- 200	2194980	3055924	860943	182852	678092	5473	159779
200 -- 500	7235209	9216022	1980813	369484	1611329	11794	343208
500 -- 1000	12562109	15394004	2831896	549275	2282620	15745	470517
1000 -- 2000	22647217	27563825	4916609	945143	3971466	25380	896872
2000 -- 5000	54023491	64784108	10760617	1859159	8901458	27525	1534612
5000 -- 10000	58688278	69920624	11232346	1696457	9535889	29996	1518994
10000 -- 50000	181363307	217893721	36530414	5506580	31023834	85099	4184380
50000 & above	434469617	518693364	84223747	14582699	69641048	303182	10107251
<b>Total</b>	<b>774377980</b>	<b>928179908</b>	<b>153801928</b>	<b>26155291</b>	<b>127646637</b>	<b>512545</b>	<b>19343714</b>

**Statement 16B: Principal Characteristics by Total Output  
(Percentage Distribution)**

<b>Total Output (₹ Lakhs)</b>	<b>Factories in Operation</b>	<b>Fixed Capital</b>	<b>Productive Capital</b>	<b>Invested Capital</b>	<b>Workers</b>	<b>Total Persons Engaged</b>	<b>Wages to Workers</b>	<b>Total Emoluments</b>
Upto 25	14.08	1.21	0.84	0.95	0.56	0.74	0.20	0.20
25 --- 50	4.79	0.11	0.14	0.11	0.79	0.77	0.32	0.22
50 -- 100	8.60	0.25	0.33	0.28	2.47	2.31	1.01	0.67
100 -- 200	10.77	0.57	0.70	0.61	3.00	2.91	1.59	1.15
200 -- 500	14.37	1.11	1.27	1.26	4.72	4.75	3.21	2.56
500 -- 1000	11.06	1.98	2.07	2.06	5.32	5.39	4.07	3.54
1000 -- 2000	10.28	2.83	3.16	3.05	7.47	7.73	5.85	5.41
2000 -- 5000	11.26	5.44	6.24	6.08	13.84	13.82	11.72	10.87
5000 -- 10000	5.74	5.39	6.71	6.12	11.30	11.13	10.33	9.87
10000 -- 50000	6.91	17.34	19.80	19.83	27.46	27.02	26.76	26.49
50000 & above	2.14	63.76	58.73	59.65	23.06	23.43	34.94	39.04
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

<b>Total Output (₹ Lakhs)</b>	<b>Total Input</b>	<b>Total Output</b>	<b>Gross Value Added</b>	<b>Depreciation</b>	<b>Net Value Added</b>	<b>Rent Paid for Fixed Assets</b>	<b>Interest Paid</b>
Upto 25	0.02	0.01	-0.07	1.31	-0.35	0.38	0.27
25 --- 50	0.03	0.04	0.07	0.14	0.06	0.29	0.07
50 -- 100	0.10	0.13	0.29	0.32	0.29	0.96	0.31
100 -- 200	0.28	0.33	0.56	0.70	0.53	1.07	0.83
200 -- 500	0.93	0.99	1.29	1.41	1.26	2.30	1.77
500 -- 1000	1.62	1.66	1.84	2.10	1.79	3.07	2.43
1000 -- 2000	2.92	2.97	3.20	3.61	3.11	4.95	4.64
2000 -- 5000	6.98	6.98	7.00	7.11	6.97	5.37	7.93
5000 -- 10000	7.58	7.53	7.30	6.49	7.47	5.85	7.85
10000 -- 50000	23.42	23.48	23.75	21.05	24.30	16.60	21.63
50000 & above	56.11	55.88	54.76	55.75	54.56	59.15	52.25
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

## ***10. Distribution of Factories in Operation by Size of Net Value Added***

### ***10.1 Principal Characteristics***

**10.1.1** Statement 17A sets out the distribution of factories along with related characteristics classified by net value added. These characteristics in percentage terms are given in Statement 17B. About 14.47% of the operating factories, each with less than ₹ 2.5 Lakhs of net value added, share about 13.70% of total fixed capital, provide gainful employment to 4.83% of total persons engaged of the factory sector, disburse 4.75% of the emoluments. These units, consuming about 5.22% of total input, are found to produce 4.11% of total output. On the other hand, about 10.83% of the operating factories, each contributing at least ₹ 10 Crores of net value added, possess 74.05% of the total fixed capital. They have 56.73% of total persons engaged, taking away 70.41% of the total salary/wage bill in terms of emoluments and produce 74.44% of total output after consuming 72.27% of total input.



Statement 17A: Principal Characteristics by Net Value Added

NVA Range (₹ Lakhs)	Factories in Operation	Fixed Capital	Productive Capital	Invested Capital	Workers	Total Persons Engaged	Wages to Workers	Total Emoluments
	(Number)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(Number)	(Number)	(₹ Lakhs)	(₹ Lakhs)
Upto 2.5	28520	47485694	39507398	56052108	554697	785798	983393	2193380
2.5 --- 5	4320	417972	490027	491950	17989	26867	12550	19258
5 ---- 10	8312	296668	494720	495183	48709	68258	35763	55813
10 ---- 20	16251	747064	1407943	1458691	136699	183647	113634	176521
20 ---- 50	35554	2404364	4717977	4573761	577865	728183	475749	758218
50 ----100	26653	3876318	6646189	7089698	651024	819537	674399	1138090
100----200	21446	6778178	10773918	11431964	789223	1004880	961473	1770538
200----500	22725	14762887	21470669	24139968	1413001	1802186	1939814	3797868
500----1000	12024	13151837	20822168	22430794	1293205	1625413	1896035	3762257
1000---5000	14842	46488714	68793486	74908640	3283135	4100494	5351491	11036078
5000& above	6499	210197279	252348941	274653717	4033041	5134950	9131733	21499961
<b>Total</b>	<b>197145</b>	<b>346606975</b>	<b>427473434</b>	<b>477726474</b>	<b>12798588</b>	<b>16280211</b>	<b>21576035</b>	<b>46207983</b>

NVA Range (₹ Lakhs)	Total Input	Total Output	Gross Value Added	Depreciation	Net Value Added	Rent Paid for Fixed Assets	Interest Paid
	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)	(₹ Lakhs)
Upto 2.5	40427907	38157911	-2269996	3844211	-6114208	45257	2481965
2.5 --- 5	224942	277393	52451	36030	16421	262	7538
5 ---- 10	594466	685645	91179	29736	61443	665	18807
10 ---- 20	2380006	2702984	322978	80147	242831	2330	52355
20 ---- 50	10268814	11722400	1453586	264760	1188826	8797	241451
50 ----100	17561251	19817367	2256115	393793	1862322	11452	397924
100----200	29386698	33091407	3704710	696598	3008112	12788	621954
200----500	58917678	67086986	8169308	1347108	6822199	26674	1371836
500----1000	54920745	63752296	8831550	1324576	7506975	28619	1185701
1000---5000	150101453	179382838	29281384	4165098	25116286	69345	3450060
5000& above	409594018	511502682	101908664	13973234	87935430	306356	9514121
<b>Total</b>	<b>774377980</b>	<b>928179908</b>	<b>153801928</b>	<b>26155291</b>	<b>127646637</b>	<b>512545</b>	<b>19343714</b>

**Statement 17B: Principal Characteristics by Net Value Added  
(Percentage Distribution)**

<b>NVA Range (₹ Lakhs)</b>	<b>Factories in Operation</b>	<b>Fixed Capital</b>	<b>Productive Capital</b>	<b>Invested Capital</b>	<b>Workers</b>	<b>Total Persons Engaged</b>	<b>Wages to Workers</b>	<b>Total Emoluments</b>
Upto 2.5	14.47	13.70	9.24	11.73	4.33	4.83	4.56	4.75
2.5 --- 5	2.19	0.12	0.11	0.10	0.14	0.17	0.06	0.04
5 ---- 10	4.22	0.09	0.12	0.10	0.38	0.42	0.17	0.12
10 ---- 20	8.24	0.22	0.33	0.31	1.07	1.13	0.53	0.38
20 ---- 50	18.03	0.69	1.10	0.96	4.52	4.47	2.20	1.64
50 ----100	13.52	1.12	1.55	1.48	5.09	5.03	3.13	2.46
100----200	10.88	1.96	2.52	2.39	6.17	6.17	4.46	3.83
200----500	11.53	4.26	5.02	5.05	11.04	11.07	8.99	8.22
500----1000	6.10	3.79	4.87	4.70	10.10	9.98	8.79	8.14
1000---5000	7.53	13.41	16.09	15.68	25.65	25.19	24.80	23.88
5000& above	3.30	60.64	59.03	57.49	31.51	31.54	42.32	46.53
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

<b>NVA Range (₹ Lakhs)</b>	<b>Total Input</b>	<b>Total Output</b>	<b>Gross Value Added</b>	<b>Depreciation</b>	<b>Net Value Added</b>	<b>Rent Paid for Fixed Assets</b>	<b>Interest Paid</b>
Upto 2.5	5.22	4.11	-1.48	14.70	-4.79	8.83	12.83
2.5 --- 5	0.03	0.03	0.03	0.14	0.01	0.05	0.04
5 ---- 10	0.08	0.07	0.06	0.11	0.05	0.13	0.10
10 ---- 20	0.31	0.29	0.21	0.31	0.19	0.45	0.27
20 ---- 50	1.33	1.26	0.95	1.01	0.93	1.72	1.25
50 ----100	2.27	2.14	1.47	1.51	1.46	2.23	2.06
100----200	3.79	3.57	2.41	2.66	2.36	2.50	3.22
200----500	7.61	7.23	5.31	5.15	5.34	5.20	7.09
500----1000	7.09	6.87	5.74	5.06	5.88	5.58	6.13
1000---5000	19.38	19.33	19.04	15.92	19.68	13.53	17.84
5000& above	52.89	55.11	66.26	53.42	68.89	59.77	49.18
<b>Total</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

### **11. Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT**

**11.1** Statement 18 presents the share of major industries contributing at least 80% of total output within each of the thirty four States/UTs. The ranking of major industries in a State/UT has been done according to the value of their output. The industries are ranked in the descending order of their output. Besides the output, the contribution of each of these industries to gross value added is also given.

**11.2** From Statement 18, it is seen that at all-India level, it is Basic Metals (NIC: 24), that contributes to the total output by maximum of 14.00%, whereas this industry is contributing to the highest proportion in respect to the total output in the states like Arunachal Pradesh (55.60%), Chattisgarh (68.91%), Jharkhand (58.54%), Karnataka (16.74%), Odisha (56.20%), Punjab (20.32%), Uttarakhand (16.91%) and West Bengal (26.43%).

**11.3** Food Products (NIC: 10), the second highest in ranking in proportionate share of total output, accounts for 12.83% of the total output at all India level, whereas this industry accounts for the highest value of total output in Seven States namely, Andhra Pradesh (23.93%), Delhi (38.19%), Madhya Pradesh (21.86%), Maharashtra (12.85%), Rajasthan (13.31%), Tripura (30.49%) and Uttar Pradesh (22.94%).

**11.4** The third contributing (12.22%) industry to the total output of India is Coke and Refined Petroleum Products (NIC: 19), which accounts for the highest share of output in the state of Assam (45.33%), Bihar (50.29%), Gujarat (27.06%) and Kerala (34.01%).

**11.5** Chemicals and Chemical Products (NIC: 20) accounts for 8.85% of the all India output and is the fourth highest in proportional share of total output. State-wise, this industry group contributes maximum to the total output of D&N Haveli (30.49%) and Jammu & Kashmir (30.17%).

**11.6** Motor Vehicles, Trailers and Semi-Trailers (NIC: 29) accounts for 7.68% of the total output at all India level and among the States/UTs, it has the highest share of total output in Haryana (25.38%) and Tamil Nadu (20.27%).

**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA	
			₹ Lakhs			
			Actual	Percentage	Actual	Percentage
A&N Islands		TOTAL	4402	100.00	1116	100.00
		TOTAL OF BELOW INDUSTRIES	4402	100.00	1116	100.00
		OTHER INDUSTRIES	2799	63.58	811	72.67
	10	FOOD PRODUCTS	1603	36.42	305	27.33
Andhra Pradesh		TOTAL	37614334	100.00	4900685	100.00
		TOTAL OF BELOW INDUSTRIES	30301566	80.55	3548589	72.40
	10	FOOD PRODUCTS	8999477	23.93	919415	18.76
	24	BASIC METALS	5372714	14.28	711760	14.52
	19	COKE AND REFINED PETROLEUM PRODUCTS	4549049	12.09	213860	4.36
	26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	3582734	9.52	50422	1.03
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	2678789	7.12	659044	13.45
	23	OTHER NON-METALLIC MINERAL PRODUCTS	2609502	6.94	547912	11.18
20	CHEMICALS AND CHEMICAL PRODUCTS	2509301	6.67	446176	9.10	
Arunachal Pradesh		TOTAL	106282	100.00	15270	100.00
		TOTAL OF BELOW INDUSTRIES	88604	83.37	11413	74.74
	24	BASIC METALS	59092	55.60	5922	38.78
	11	BEVERAGES	16437	15.47	2627	17.20
10	FOOD PRODUCTS	13075	12.30	2864	18.76	
Assam		TOTAL	8100540	100.00	1666585	100.00
		TOTAL OF BELOW INDUSTRIES	6896082	85.13	1314961	78.89
	19	COKE AND REFINED PETROLEUM PRODUCTS	3672131	45.33	619963	37.20
	10	FOOD PRODUCTS	1545849	19.08	283540	17.01
	20	CHEMICALS AND CHEMICAL PRODUCTS	757604	9.35	223202	13.39
	23	OTHER NON-METALLIC MINERAL PRODUCTS	494547	6.11	146369	8.78
	24	BASIC METALS	425951	5.26	41887	2.51
Bihar		TOTAL	6841844	100.00	728166	100.00
		TOTAL OF BELOW INDUSTRIES	5728799	83.72	422622	58.04
	19	COKE AND REFINED PETROLEUM PRODUCTS	3441099	50.29	199935	27.46
	10	FOOD PRODUCTS	1715538	25.07	129354	17.76
	24	BASIC METALS	296966	4.34	18789	2.58
23	OTHER NON-METALLIC MINERAL PRODUCTS	275196	4.02	74544	10.24	
Chandigarh		TOTAL	442146	100.00	51179	100.00
		TOTAL OF BELOW INDUSTRIES	362758	82.05	38278	74.79
		OTHER INDUSTRIES	159428	36.06	14261	27.86
	24	BASIC METALS	95623	21.63	3899	7.62
	28	MACHINERY AND EQUIPMENT N.E.C.	76575	17.32	17831	34.84
	11	BEVERAGES	31132	7.04	2287	4.47

**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA	
			₹ Lakhs			
			Actual	Percentage	Actual	Percentage
Chattisgarh		TOTAL	17133370	100.00	2462330	100.00
		TOTAL OF BELOW INDUSTRIES	14738088	86.01	2107916	85.61
	24	BASIC METALS	11807443	68.91	1620848	65.83
	10	FOOD PRODUCTS	1662525	9.70	127140	5.16
	23	OTHER NON-METALLIC MINERAL PRODUCTS	1268120	7.40	359928	14.62
D&N Haveli		TOTAL	10374254	100.00	1245806	100.00
		TOTAL OF BELOW INDUSTRIES	8965845	86.43	975543	78.30
	20	CHEMICALS AND CHEMICAL PRODUCTS	3163327	30.49	395489	31.75
	13	TEXTILES	1871076	18.04	170598	13.69
	27	ELECTRICAL EQUIPMENT	1476807	14.24	165492	13.28
	22	RUBBER AND PLASTICS PRODUCTS	1441225	13.89	196256	15.75
	24	BASIC METALS	1013410	9.77	47708	3.83
Daman & Diu		TOTAL	5024273	100.00	816913	100.00
		TOTAL OF BELOW INDUSTRIES	4142501	82.45	643519	78.77
	22	RUBBER AND PLASTICS PRODUCTS	1136030	22.61	193782	23.72
	20	CHEMICALS AND CHEMICAL PRODUCTS	1105225	22.00	108722	13.31
	27	ELECTRICAL EQUIPMENT	666795	13.27	64793	7.93
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	393017	7.82	149321	18.28
	26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	344436	6.86	62428	7.64
	24	BASIC METALS	341523	6.80	21416	2.62
	14	WEARING APPAREL	155475	3.09	43057	5.27
Delhi		TOTAL	5011126	100.00	607530	100.00
		TOTAL OF BELOW INDUSTRIES	4031604	80.45	467838	77.00
	10	FOOD PRODUCTS	1913682	38.19	105329	17.34
	14	WEARING APPAREL	429624	8.57	83502	13.74
		OTHER INDUSTRIES	338776	6.76	101032	16.63
	24	BASIC METALS	287580	5.74	13406	2.21
	27	ELECTRICAL EQUIPMENT	255230	5.09	29117	4.79
	26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	251834	5.03	46926	7.72
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	212480	4.24	26532	4.37
	20	CHEMICALS AND CHEMICAL PRODUCTS	192024	3.83	21751	3.58
	18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	150374	3.00	40243	6.62

**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA	
			₹ Lakhs			
			Actual	Percentage	Actual	Percentage
Goa		TOTAL	5224251	100.00	1513420	100.00
		TOTAL OF BELOW INDUSTRIES	4286273	82.05	1245816	82.32
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	1424429	27.27	686010	45.33
	20	CHEMICALS AND CHEMICAL PRODUCTS	747163	14.30	72232	4.77
	27	ELECTRICAL EQUIPMENT	718131	13.75	132851	8.78
	24	BASIC METALS	483345	9.25	79342	5.24
	22	RUBBER AND PLASTICS PRODUCTS	376862	7.21	149161	9.86
	10	FOOD PRODUCTS	285042	5.46	86999	5.75
26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	251301	4.81	39221	2.59	
Gujarat		TOTAL	161877155	100.00	22897857	100.00
		TOTAL OF BELOW INDUSTRIES	133867814	82.69	18400186	80.36
	19	COKE AND REFINED PETROLEUM PRODUCTS	43808061	27.06	3864048	16.88
	20	CHEMICALS AND CHEMICAL PRODUCTS	29156214	18.01	5481851	23.94
	10	FOOD PRODUCTS	13899339	8.59	908239	3.97
	24	BASIC METALS	12675408	7.83	1183163	5.17
	13	TEXTILES	10695263	6.61	2024419	8.84
		OTHER INDUSTRIES	6734955	4.16	1045066	4.56
	32	OTHER MANUFACTURING	5900305	3.64	606364	2.65
	28	MACHINERY AND EQUIPMENT N.E.C.	5780115	3.57	1354064	5.91
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	5218154	3.22	1932972	8.44	
Haryana		TOTAL	62391961	100.00	9334635	100.00
		TOTAL OF BELOW INDUSTRIES	51031065	81.79	7061970	75.66
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	15836064	25.38	3126039	33.49
	10	FOOD PRODUCTS	8254505	13.23	632773	6.78
	24	BASIC METALS	6346374	10.17	348585	3.73
	19	COKE AND REFINED PETROLEUM PRODUCTS	5428434	8.70	48136	0.52
	30	OTHER TRANSPORT EQUIPMENT	3824034	6.13	791844	8.48
	28	MACHINERY AND EQUIPMENT N.E.C.	3242264	5.20	655265	7.02
	13	TEXTILES	2203794	3.53	377919	4.05
	27	ELECTRICAL EQUIPMENT	2000723	3.21	421983	4.52
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	1977538	3.17	347115	3.72
	22	RUBBER AND PLASTICS PRODUCTS	1917335	3.07	312311	3.35
Himachal Pradesh		TOTAL	11638767	100.00	3229128	100.00
		TOTAL OF BELOW INDUSTRIES	9722136	83.54	2824961	87.49
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	3400527	29.22	1245080	38.56
	20	CHEMICALS AND CHEMICAL PRODUCTS	1480706	12.72	528975	16.38
	27	ELECTRICAL EQUIPMENT	1220617	10.49	198115	6.14
	24	BASIC METALS	907749	7.80	49369	1.53
	13	TEXTILES	664365	5.71	101604	3.15
	22	RUBBER AND PLASTICS PRODUCTS	640683	5.50	142756	4.42
	10	FOOD PRODUCTS	533640	4.59	131136	4.06
	17	PAPER AND PAPER PRODUCTS	442207	3.80	72055	2.23
		OTHER INDUSTRIES	431642	3.71	355871	11.02

**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA	
			(` Lakhs)			
			Actual	Percentage	Actual	Percentage
Jammu & Kashmir		TOTAL	3233252	100.00	727447	100.00
		TOTAL OF BELOW INDUSTRIES	2709539	83.81	618907	85.08
	20	CHEMICALS AND CHEMICAL PRODUCTS	975425	30.17	235599	32.39
	10	FOOD PRODUCTS	515720	15.95	36254	4.98
	24	BASIC METALS	309007	9.56	19056	2.62
		OTHER INDUSTRIES	292829	9.06	165113	22.70
	22	RUBBER AND PLASTICS PRODUCTS	249273	7.71	34151	4.69
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	192400	5.95	93761	12.89
	27	ELECTRICAL EQUIPMENT	174885	5.41	34973	4.81
Jharkhand		TOTAL	16825465	100.00	3733126	100.00
		TOTAL OF BELOW INDUSTRIES	13862326	82.39	3104340	83.15
	24	BASIC METALS	9849518	58.54	2355330	63.09
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	3044336	18.09	522740	14.00
		OTHER INDUSTRIES	968472	5.76	226270	6.06
Karnataka		TOTAL	57908174	100.00	10576055	100.00
		TOTAL OF BELOW INDUSTRIES	47406605	81.87	7726527	73.05
	24	BASIC METALS	9691289	16.74	1476707	13.96
	10	FOOD PRODUCTS	8558233	14.78	850612	8.04
	19	COKE AND REFINED PETROLEUM PRODUCTS	7531689	13.01	313997	2.97
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	4891564	8.45	899905	8.51
	28	MACHINERY AND EQUIPMENT N.E.C.	3418533	5.90	837761	7.92
	14	WEARING APPAREL	2654468	4.58	867506	8.20
	27	ELECTRICAL EQUIPMENT	2643850	4.57	517152	4.89
	20	CHEMICALS AND CHEMICAL PRODUCTS	2079037	3.59	464619	4.39
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	2028856	3.50	712780	6.74
	30	OTHER TRANSPORT EQUIPMENT	1968417	3.40	399297	3.78
	22	RUBBER AND PLASTICS PRODUCTS	1940669	3.35	386191	3.65
	Kerala		TOTAL	22077459	100.00	2337875
		TOTAL OF BELOW INDUSTRIES	18212318	82.50	1480890	63.33
19		COKE AND REFINED PETROLEUM PRODUCTS	7507779	34.01	276575	11.83
32		OTHER MANUFACTURING	4330950	19.62	95255	4.07
10		FOOD PRODUCTS	3285958	14.88	369689	15.81
22		RUBBER AND PLASTICS PRODUCTS	1332643	6.04	223964	9.58
20		CHEMICALS AND CHEMICAL PRODUCTS	1019809	4.62	376500	16.10
		OTHER INDUSTRIES	735179	3.33	138907	5.94

**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA	
			(` Lakhs)			
			Actual	Percentage	Actual	Percentage
Madhya Pradesh		TOTAL	29291311	100.00	5692052	100.00
		TOTAL OF BELOW INDUSTRIES	24537438	83.76	4856537	85.32
	10	FOOD PRODUCTS	6402904	21.86	628040	11.03
		OTHER INDUSTRIES	2921741	9.97	991340	17.42
	19	COKE AND REFINED PETROLEUM PRODUCTS	2836502	9.68	243771	4.28
	23	OTHER NON-METALLIC MINERAL PRODUCTS	2669595	9.11	952624	16.74
	13	TEXTILES	1898952	6.48	650992	11.44
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	1715596	5.86	286859	5.04
	24	BASIC METALS	1631837	5.57	162492	2.85
	22	RUBBER AND PLASTICS PRODUCTS	1514987	5.17	268645	4.72
	27	ELECTRICAL EQUIPMENT	1493790	5.10	395758	6.95
	20	CHEMICALS AND CHEMICAL PRODUCTS	1451534	4.96	276016	4.85
Maharashtra		TOTAL	133055982	100.00	23238342	100.00
		TOTAL OF BELOW INDUSTRIES	108154350	81.28	17746300	76.37
	10	FOOD PRODUCTS	17099864	12.85	2110632	9.08
	24	BASIC METALS	15703614	11.80	1847843	7.95
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	13847432	10.41	2260552	9.73
	20	CHEMICALS AND CHEMICAL PRODUCTS	13079364	9.83	2404082	10.35
	19	COKE AND REFINED PETROLEUM PRODUCTS	11996799	9.02	764924	3.29
	28	MACHINERY AND EQUIPMENT N.E.C.	10604819	7.97	2492387	10.73
	22	RUBBER AND PLASTICS PRODUCTS	5449342	4.10	999280	4.30
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	5380970	4.04	1152693	4.96
	30	OTHER TRANSPORT EQUIPMENT	5060327	3.80	1111116	4.78
	27	ELECTRICAL EQUIPMENT	5035121	3.78	918262	3.95
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	4896698	3.68	1684529	7.25
Manipur		TOTAL	46742	100.00	11057	100.00
		TOTAL OF BELOW INDUSTRIES	43102	92.21	9973	90.20
	23	OTHER NON-METALLIC MINERAL PRODUCTS	25423	54.39	7742	70.02
	10	FOOD PRODUCTS	11332	24.24	730	6.60
		OTHER INDUSTRIES	6347	13.58	1501	13.58
Meghalaya		TOTAL	713670	100.00	160287	100.00
		TOTAL OF BELOW INDUSTRIES	599482	84.00	147514	92.03
	23	OTHER NON-METALLIC MINERAL PRODUCTS	378212	53.00	121293	75.67
	24	BASIC METALS	176416	24.72	14902	9.30
		OTHER INDUSTRIES	44854	6.28	11319	7.06



**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA		
			₹ Lakhs				
			Actual	Percentage	Actual	Percentage	
Nagaland		TOTAL	57320	100.00	15822	100.00	
	16	TOTAL OF BELOW INDUSTRIES	52591	91.75	13392	84.64	
		MATERIALS	28706	50.08	10787	68.18	
		OTHER INDUSTRIES	12864	22.44	1912	12.08	
		10	FOOD PRODUCTS	11021	19.23	693	4.38
Odisha		TOTAL	30238991	100.00	5305972	100.00	
	24	TOTAL OF BELOW INDUSTRIES	24564427	81.23	4107024	77.41	
		BASIC METALS	16995015	56.20	3229624	60.87	
		19	COKE AND REFINED PETROLEUM PRODUCTS	6091068	20.14	323684	6.10
		20	CHEMICALS AND CHEMICAL PRODUCTS	1478344	4.89	553716	10.44
Puducherry		TOTAL	3794251	100.00	751604	100.00	
	26	TOTAL OF BELOW INDUSTRIES	3093275	81.52	597300	79.47	
		COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	970105	25.57	66804	8.89	
		20	CHEMICALS AND CHEMICAL PRODUCTS	606063	15.97	270689	36.01
		22	RUBBER AND PLASTICS PRODUCTS	468202	12.34	77918	10.37
		27	ELECTRICAL EQUIPMENT	343415	9.05	112864	15.02
		10	FOOD PRODUCTS	242563	6.39	6810	0.91
		24	BASIC METALS	232825	6.14	10933	1.45
		25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	230102	6.06	51282	6.82
		Punjab		TOTAL	23063541	100.00	3419840
24	TOTAL OF BELOW INDUSTRIES		19071005	82.70	2558428	74.82	
	BASIC METALS		4687105	20.32	239347	7.00	
	10		FOOD PRODUCTS	4378896	18.99	546041	15.97
	13		TEXTILES	3128768	13.57	456764	13.36
	28		MACHINERY AND EQUIPMENT N.E.C.	2269601	9.84	516371	15.10
	30		OTHER TRANSPORT EQUIPMENT	1161808	5.04	187828	5.49
	14		WEARING APPAREL	977594	4.24	180600	5.28
	29		MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	894273	3.88	200592	5.87
	20		CHEMICALS AND CHEMICAL PRODUCTS	815753	3.54	104209	3.05
	25		FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	757207	3.28	126676	3.70

**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA	
			₹ Lakhs			
			Actual	Percentage	Actual	Percentage
Rajasthan		TOTAL	33277014	100.00	5678048	100.00
		TOTAL OF BELOW INDUSTRIES	27378166	82.27	4529778	79.78
	10	FOOD PRODUCTS	4428927	13.31	260164	4.58
	23	OTHER NON-METALLIC MINERAL PRODUCTS	3762729	11.31	957312	16.86
	24	BASIC METALS	3484827	10.47	332379	5.85
	20	CHEMICALS AND CHEMICAL PRODUCTS	3441389	10.34	453739	7.99
	13	TEXTILES	3266814	9.82	529592	9.33
	27	ELECTRICAL EQUIPMENT	2715005	8.16	358250	6.31
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	2407421	7.23	455791	8.03
	28	MACHINERY AND EQUIPMENT N.E.C.	1485667	4.46	418888	7.38
		OTHER INDUSTRIES	1243881	3.74	544292	9.59
	22	RUBBER AND PLASTICS PRODUCTS	1141506	3.43	219371	3.86
Sikkim		TOTAL	1910564	100.00	1163279	100.00
		TOTAL OF BELOW INDUSTRIES	1669443	87.38	1054208	90.62
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	1669443	87.38	1054208	90.62
Tamilnadu		TOTAL	93834701	100.00	16828594	100.00
		TOTAL OF BELOW INDUSTRIES	75297766	80.25	12523652	74.41
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	19016531	20.27	3111778	18.49
	13	TEXTILES	9655503	10.29	1675177	9.95
	10	FOOD PRODUCTS	8568617	9.13	858895	5.10
	28	MACHINERY AND EQUIPMENT N.E.C.	7548932	8.04	1767532	10.50
	14	WEARING APPAREL	5214705	5.56	1180055	7.01
	19	COKE AND REFINED PETROLEUM PRODUCTS	5053381	5.39	401714	2.39
	24	BASIC METALS	5021380	5.35	583035	3.46
	26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	4756176	5.07	736426	4.38
	22	RUBBER AND PLASTICS PRODUCTS	3754060	4.00	746560	4.44
	20	CHEMICALS AND CHEMICAL PRODUCTS	3582598	3.82	694678	4.13
	30	OTHER TRANSPORT EQUIPMENT	3125883	3.33	767802	4.56
Telangana		TOTAL	26876887	100.00	5745571	100.00
		TOTAL OF BELOW INDUSTRIES	22114238	82.27	4452814	77.50
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	5315442	19.78	1790138	31.16
	10	FOOD PRODUCTS	3700256	13.77	349092	6.08
	24	BASIC METALS	2694393	10.02	180161	3.14
	22	RUBBER AND PLASTICS PRODUCTS	1976490	7.35	347092	6.04
	23	OTHER NON-METALLIC MINERAL PRODUCTS	1767489	6.58	384475	6.69
	01	CROP AND ANIMAL PRODUCTION, HUNTING AND RELATED SERVICE ACTIVITIES	1661906	6.18	229896	4.00
		OTHER INDUSTRIES	1597206	5.94	539482	9.39
	27	ELECTRICAL EQUIPMENT	1301076	4.84	277538	4.83
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	1083802	4.03	175974	3.06
	20	CHEMICALS AND CHEMICAL PRODUCTS	1016178	3.78	178966	3.11

**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA	
			(` Lakhs)			
			Actual	Percentage	Actual	Percentage
Tripura		TOTAL	181849	100.00	32120	100.00
		TOTAL OF BELOW INDUSTRIES	155021	85.25	28873	89.89
	10	FOOD PRODUCTS	55438	30.49	8273	25.76
	23	OTHER NON-METALLIC MINERAL PRODUCTS	38492	21.17	14667	45.66
		OTHER INDUSTRIES	23213	12.76	2282	7.10
	22	RUBBER AND PLASTICS PRODUCTS	21835	12.01	2206	6.87
	24	BASIC METALS	16043	8.82	1445	4.50
Uttar Pradesh		TOTAL	57905351	100.00	8289283	100.00
		TOTAL OF BELOW INDUSTRIES	46974140	81.12	5434828	65.56
	10	FOOD PRODUCTS	13283736	22.94	988851	11.93
	26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	6551706	11.31	819294	9.88
	20	CHEMICALS AND CHEMICAL PRODUCTS	5049876	8.72	883256	10.66
	24	BASIC METALS	4604268	7.95	463379	5.59
	19	COKE AND REFINED PETROLEUM PRODUCTS	4395483	7.59	-240261	-2.90
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	2524413	4.36	346108	4.18
	22	RUBBER AND PLASTICS PRODUCTS	2174510	3.76	374788	4.52
		OTHER INDUSTRIES	1948772	3.37	777930	9.38
	23	OTHER NON-METALLIC MINERAL PRODUCTS	1847097	3.19	391892	4.73
	17	PAPER AND PAPER PRODUCTS	1570184	2.71	197510	2.38
	27	ELECTRICAL EQUIPMENT	1516049	2.62	224702	2.71
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	1508046	2.60	207379	2.50
Uttarakhand		TOTAL	25569341	100.00	5525134	100.00
		TOTAL OF BELOW INDUSTRIES	21106695	82.54	4357025	78.85
	24	BASIC METALS	4324299	16.91	668952	12.11
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	3119943	12.20	794765	14.38
	20	CHEMICALS AND CHEMICAL PRODUCTS	2563120	10.02	880498	15.94
	30	OTHER TRANSPORT EQUIPMENT	2505192	9.80	516092	9.34
	32	OTHER MANUFACTURING	1723034	6.74	98557	1.78
	22	RUBBER AND PLASTICS PRODUCTS	1706529	6.67	342661	6.20
	27	ELECTRICAL EQUIPMENT	1454737	5.69	288522	5.22
	10	FOOD PRODUCTS	1332884	5.21	208931	3.78
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	1240207	4.85	339579	6.15
	17	PAPER AND PAPER PRODUCTS	1136750	4.45	218468	3.95

**Statement 18: Share of Major Industries contributing at least 80% in terms of Total Output within each State/UT  
(Arranged in Descending Order of Total Output)**

State/UT	NIC-2008	Description	Total Output		GVA	
			[₹ Lakhs]			
			Actual	Percentage	Actual	Percentage
West Bengal		TOTAL	36533341	100.00	5099797	100.00
		TOTAL OF BELOW INDUSTRIES	30135818	82.48	3590976	70.41
	24	BASIC METALS	9655632	26.43	1139046	22.34
	10	FOOD PRODUCTS	6431648	17.60	475274	9.32
	19	COKE AND REFINED PETROLEUM PRODUCTS	4403223	12.05	249268	4.89
	20	CHEMICALS AND CHEMICAL PRODUCTS	3360107	9.20	445340	8.73
	27	ELECTRICAL EQUIPMENT	1421551	3.89	207059	4.06
	13	TEXTILES	1396958	3.82	336791	6.60
	23	OTHER NON-METALLIC MINERAL PRODUCTS	1348484	3.69	435736	8.54
	22	RUBBER AND PLASTICS PRODUCTS	1116651	3.06	152415	2.99
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	1001564	2.74	150047	2.94
All India		TOTAL	928179908	100.00	153801928	100.00
		TOTAL OF BELOW INDUSTRIES	767207445	82.67	122892277	79.90
	24	BASIC METALS	129916070	14.00	16914048	11.00
	10	FOOD PRODUCTS	119059534	12.83	11299660	7.35
	19	COKE AND REFINED PETROLEUM PRODUCTS	113403646	12.22	7555128	4.91
	20	CHEMICALS AND CHEMICAL PRODUCTS	82112597	8.85	15991891	10.40
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	71303693	7.68	12646577	8.22
	13	TEXTILES	43781702	4.72	8027293	5.22
	28	MACHINERY AND EQUIPMENT N.E.C.	41376583	4.46	9451069	6.14
	22	RUBBER AND PLASTICS PRODUCTS	34948381	3.77	6265571	4.07
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	34222715	3.69	11795347	7.67
	23	OTHER NON-METALLIC MINERAL PRODUCTS	33436815	3.60	8447185	5.49
	27	ELECTRICAL EQUIPMENT	32878719	3.54	5769254	3.75
	OTHER INDUSTRIES	30766990	3.31	8729254	5.68	

## ***12. Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry***

**12.1** Statement 19 gives the shares of major States/UTs contributing at least 80% of the total output within the major industry divisions of manufacturing sector. Within each such industry division, States/UTs have been ranked based on their relative contributions to the total output of that industry. From Statement 19, it is clearly seen that, in Cotton Ginning, Cleaning, Baling (01632) and Seed Processing for Propagation (01640) (NIC: 01), Gujarat, Maharashtra and Telangana are the top three important contributors to the total output. These three States together accounted for 73.88% of the total output for the industry. Maharashtra, Gujarat and Uttar Pradesh are the top contributors in the Food industry (NIC: 10) by contributing 37.19% of total output of that industry. In the case of Coke and Refined Petroleum Products (NIC: 19), Gujarat, Maharashtra and Karnataka are the top three contributors to total output, accounting for 55.85% taken together. The major contributors for Chemicals and Chemical Products (NIC: 20) are Gujarat, Maharashtra and Uttar Pradesh and these States accounted 57.59% of total output of that industry. In Basic Metals (NIC: 24), the major States are Odisha, Maharashtra and Gujarat by capturing 34.93% of total output of that industry. In Motor Vehicles, Trailers and Semi-Trailers (NIC: 29) industry, the top three States are Tamilnadu, Haryana and Maharashtra capturing 68.30% of the total output in that industry.

**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry  
(Arranged in Descending Order of Total Output)**

Section 12

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
01	COTTON GINNING,CLEANING AND BAILING (01632); SEED PROCESSING FOR PROPAGATION (01640)	All India	8505789	100.00	543339	100.00
		TOTAL OF BELOW STATE/UTs	6887338	80.97	432842	79.66
		Gujarat	2537663	29.83	69336	12.76
		Maharashtra	2084898	24.51	114787	21.13
		Telangana	1661906	19.54	229896	42.31
		Madhya Pradesh	602871	7.09	18823	3.46
08	SALT PRODUCTION BY EVAPORATION OF SEA WATER OR OTHER SALINE WATERS (08932)	All India	96351	100.00	41369	100.00
		TOTAL OF BELOW STATE/UTs	86626	89.91	36224	87.56
		Gujarat	86626	89.91	36224	87.56
10	FOOD PRODUCTS	All India	119059534	100.00	11299660	100.00
		TOTAL OF BELOW STATE/UTs	95927250	80.57	8632895	76.41
		Maharashtra	17099864	14.36	2110632	18.68
		Gujarat	13899339	11.67	908239	8.04
		Uttar Pradesh	13283736	11.16	988851	8.75
		Andhra Pradesh	8999477	7.56	919415	8.14
		Tamilnadu	8568617	7.20	858895	7.60
		Karnataka	8558233	7.19	850612	7.53
		Haryana	8254505	6.93	632773	5.60
		West Bengal	6431648	5.40	475274	4.21
		Madhya Pradesh	6402904	5.38	628040	5.56
		Rajasthan	4428927	3.72	260164	2.30
11	BEVERAGES	All India	8639977	100.00	2274853	100.00
		TOTAL OF BELOW STATE/UTs	7173994	83.03	1940665	85.30
		Maharashtra	1456807	16.86	632283	27.79
		Uttar Pradesh	974965	11.28	307975	13.54
		Karnataka	793563	9.18	216611	9.52
		Haryana	621654	7.20	120441	5.29
		Andhra Pradesh	607362	7.03	101368	4.46
		Tamilnadu	506163	5.86	90420	3.97
		West Bengal	463984	5.37	99913	4.39
		Telangana	453951	5.25	88588	3.89
		Rajasthan	452138	5.23	89848	3.95
		Madhya Pradesh	446296	5.17	119829	5.27
Punjab	397111	4.60	73389	3.23		

**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry  
(Arranged in Descending Order of Total Output)**

Section 12

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
12	TOBACCO PRODUCTS	All India	5240835	100.00	1847865	100.00
		TOTAL OF BELOW STATE/UTs	4357243	83.14	1554659	84.13
		Uttar Pradesh	835469	15.94	445809	24.13
		Karnataka	637324	12.16	428409	23.18
		Haryana	620951	11.85	59533	3.22
		West Bengal	577673	11.02	53067	2.87
		Gujarat	533744	10.18	113700	6.15
		Madhya Pradesh	426350	8.14	25640	1.39
		Maharashtra	416048	7.94	264684	14.32
		Telangana	309684	5.91	163817	8.87
13	TEXTILES	All India	43781702	100.00	8027293	100.00
		TOTAL OF BELOW STATE/UTs	36813770	84.08	6728868	83.83
		Gujarat	10695263	24.43	2024419	25.22
		Tamilnadu	9655503	22.05	1675177	20.87
		Maharashtra	4037969	9.22	786828	9.80
		Rajasthan	3266814	7.46	529592	6.60
		Punjab	3128768	7.15	456764	5.69
		Haryana	2203794	5.03	377919	4.71
		Andhra Pradesh	1926707	4.40	227177	2.83
		Madhya Pradesh	1898952	4.34	650992	8.11
14	WEARING APPAREL	All India	15308246	100.00	3882563	100.00
		TOTAL OF BELOW STATE/UTs	12806571	83.66	3275368	84.35
		Tamilnadu	5214705	34.06	1180055	30.39
		Karnataka	2654468	17.34	867506	22.34
		Haryana	1875172	12.25	514071	13.24
		Uttar Pradesh	1307293	8.54	346846	8.93
		Punjab	977594	6.39	180600	4.65
		Maharashtra	777339	5.08	186290	4.80
15	LEATHER AND RELATED PRODUCTS	All India	6110123	100.00	1396126	100.00
		TOTAL OF BELOW STATE/UTs	4921000	80.54	1154228	82.68
		Tamilnadu	1650702	27.02	448661	32.14
		Uttar Pradesh	1450022	23.73	322332	23.09
		Haryana	957536	15.67	199694	14.30
		West Bengal	705126	11.54	144024	10.32
		Uttarakhand	157614	2.58	39517	2.83

**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry  
(Arranged in Descending Order of Total Output)**

Section 12

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
16	WOOD AND PRODUCTS OF WOOD AND CORK,EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS	All India	2863503	100.00	496470	100.00
		TOTAL OF BELOW STATE/UTs	2367677	82.69	419549	84.52
		Gujarat	483692	16.89	63120	12.71
		West Bengal	285735	9.98	61589	12.41
		Uttar Pradesh	254463	8.89	52221	10.52
		Tamilnadu	245659	8.58	35186	7.09
		Uttarakhand	210990	7.37	62062	12.50
		Kerala	207533	7.25	25859	5.21
		Haryana	205069	7.16	23740	4.78
		Rajasthan	175409	6.13	39910	8.04
		Maharashtra	160689	5.61	26586	5.36
Karnataka	138438	4.83	29276	5.90		
17	PAPER AND PAPER PRODUCTS	All India	13918436	100.00	2596520	100.00
		TOTAL OF BELOW STATE/UTs	11297134	81.17	2036804	78.44
		Gujarat	2188380	15.72	355834	13.70
		Maharashtra	1805010	12.97	350138	13.48
		Uttar Pradesh	1570184	11.28	197510	7.61
		Tamilnadu	1563571	11.23	277348	10.68
		Uttarakhand	1136750	8.17	218468	8.41
		Punjab	682000	4.90	156545	6.03
		Haryana	668057	4.80	114609	4.41
		Karnataka	652515	4.69	148720	5.73
		Telangana	588460	4.23	145577	5.61
Himachal Pradesh	442207	3.18	72055	2.78		
18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	All India	4221332	100.00	1313662	100.00
		TOTAL OF BELOW STATE/UTs	3481525	82.48	1103724	84.00
		Maharashtra	1078461	25.55	341459	25.99
		Uttar Pradesh	551167	13.06	215489	16.40
		Tamilnadu	439258	10.41	124293	9.46
		Gujarat	404808	9.59	108238	8.24
		Karnataka	298023	7.06	85568	6.51
		Kerala	214208	5.07	90331	6.88
		Telangana	188342	4.46	57446	4.37
		Haryana	156884	3.72	40657	3.09
		Delhi	150374	3.56	40243	3.06



**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry**  
(Arranged in Descending Order of Total Output)

Section 12

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
19	COKE AND REFINED PETROLEUM PRODUCTS	All India	113403646	100.00	7555128	100.00
		TOTAL OF BELOW STATE/UTs	91966260	81.10	6206938	82.15
		Gujarat	43808061	38.63	3864048	51.14
		Maharashtra	11996799	10.58	764924	10.12
		Karnataka	7531689	6.64	313997	4.16
		Kerala	7507779	6.62	276575	3.66
		Odisha	6091068	5.37	323684	4.28
		Haryana	5428434	4.79	48136	0.64
		Tamilnadu	5053381	4.46	401714	5.32
		Andhra Pradesh	4549049	4.01	213860	2.83
20	CHEMICALS AND CHEMICAL PRODUCTS	All India	82112597	100.00	15991891	100.00
		TOTAL OF BELOW STATE/UTs	65905296	80.26	12085109	75.56
		Gujarat	29156214	35.51	5481851	34.28
		Maharashtra	13079364	15.93	2404082	15.03
		Uttar Pradesh	5049876	6.15	883256	5.52
		Tamilnadu	3582598	4.36	694678	4.34
		Rajasthan	3441389	4.19	453739	2.84
		West Bengal	3360107	4.09	445340	2.78
		Dadra and Nagar Haveli	3163327	3.85	395489	2.47
		Uttarakhand	2563120	3.12	880498	5.51
Andhra Pradesh	2509301	3.06	446176	2.79		
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	All India	34222715	100.00	11795347	100.00
		TOTAL OF BELOW STATE/UTs	27872545	81.45	10104340	85.68
		Telangana	5315442	15.53	1790138	15.18
		Gujarat	5218154	15.25	1932972	16.39
		Maharashtra	4896698	14.31	1684529	14.28
		Himachal Pradesh	3400527	9.94	1245080	10.56
		Andhra Pradesh	2678789	7.83	659044	5.59
		Karnataka	2028856	5.93	712780	6.04
		Sikkim	1669443	4.88	1054208	8.94
		Goa	1424429	4.16	686010	5.82
Uttarakhand	1240207	3.62	339579	2.88		

**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry**  
(Arranged in Descending Order of Total Output)

Section 12

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
22	RUBBER AND PLASTICS PRODUCTS	All India	34948381	100.00	6265571	100.00
		TOTAL OF BELOW STATE/UTs	28396504	81.24	5066101	80.85
		Maharashtra	5449342	15.59	999280	15.95
		Gujarat	5188714	14.85	868353	13.86
		Tamilnadu	3754060	10.74	746560	11.92
		Uttar Pradesh	2174510	6.22	374788	5.98
		Telangana	1976490	5.66	347092	5.54
		Karnataka	1940669	5.55	386191	6.16
		Haryana	1917335	5.49	312311	4.98
		Uttarakhand	1706529	4.88	342661	5.47
		Madhya Pradesh	1514987	4.33	268645	4.29
		Dadra and Nagar Haveli	1441225	4.12	196256	3.13
		Kerala	1332643	3.81	223964	3.57
23	OTHER NON-METALLIC MINERAL PRODUCTS	All India	33436815	100.00	8447185	100.00
		TOTAL OF BELOW STATE/UTs	27979041	83.66	6990077	82.76
		Gujarat	4745894	14.19	932858	11.04
		Rajasthan	3762729	11.25	957312	11.33
		Maharashtra	2748387	8.22	795437	9.42
		Madhya Pradesh	2669595	7.98	952624	11.28
		Andhra Pradesh	2609502	7.8	547912	6.49
		Tamilnadu	2364115	7.07	491576	5.82
		Uttar Pradesh	1847097	5.52	391892	4.64
		Telangana	1767489	5.29	384475	4.55
		Karnataka	1434521	4.29	303031	3.59
		Odisha	1413108	4.23	437296	5.18
		West Bengal	1348484	4.03	435736	5.16
Chattisgarh	1268120	3.79	359928	4.26		
24	BASIC METALS	All India	129916070	100.00	16914048	100.00
		TOTAL OF BELOW STATE/UTs	107805492	82.99	14735288	87.12
		Odisha	16995015	13.08	3229624	19.09
		Maharashtra	15703614	12.09	1847843	10.92
		Gujarat	12675408	9.76	1183163	7
		Chattisgarh	11807443	9.09	1620848	9.58
		Jharkhand	9849518	7.58	2355330	13.93
		Karnataka	9691289	7.46	1476707	8.73
		West Bengal	9655632	7.43	1139046	6.73
		Haryana	6346374	4.88	348585	2.06
		Andhra Pradesh	5372714	4.14	711760	4.21
		Tamilnadu	5021380	3.87	583035	3.45
		Punjab	4687105	3.61	239347	1.42

**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry  
(Arranged in Descending Order of Total Output)**

Section 12

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	All India	22816481	100.00	4635914	100.00
		TOTAL OF BELOW STATE/UTs	18914575	82.91	3911987	84.39
		Maharashtra	5380970	23.58	1152693	24.86
		Tamilnadu	2999311	13.15	803703	17.34
		Gujarat	2645989	11.6	589622	12.72
		Haryana	1977538	8.67	347115	7.49
		Karnataka	1560148	6.84	358778	7.74
		Uttar Pradesh	1508046	6.61	207379	4.47
		Telangana	1083802	4.75	175974	3.8
		West Bengal	1001564	4.39	150047	3.24
	Punjab	757207	3.32	126676	2.73	
26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	All India	24262116	100.00	3499002	100.00
		TOTAL OF BELOW STATE/UTs	20340247	83.83	2577206	73.66
		Uttar Pradesh	6551706	27.00	819294	23.42
		Tamilnadu	4756176	19.60	736426	21.05
		Andhra Pradesh	3582734	14.77	50422	1.44
		Maharashtra	2887388	11.90	484344	13.84
		Karnataka	1592138	6.56	419916	12.00
		Puducherry	970105	4.00	66804	1.91
27	ELECTRICAL EQUIPMENT	All India	32878719	100.00	5769254	100.00
		TOTAL OF BELOW STATE/UTs	26984853	82.07	4746679	82.27
		Maharashtra	5035121	15.31	918262	15.92
		Gujarat	3635251	11.06	493033	8.55
		Rajasthan	2715005	8.26	358250	6.21
		Karnataka	2643850	8.04	517152	8.96
		Tamilnadu	2290893	6.97	478928	8.30
		Haryana	2000723	6.09	421983	7.31
		Uttar Pradesh	1516049	4.61	224702	3.89
		Madhya Pradesh	1493790	4.54	395758	6.86
		Dadra and Nagar Haveli	1476807	4.49	165492	2.87
		Uttarakhand	1454737	4.42	288522	5.00
		West Bengal	1421551	4.32	207059	3.59
	Telangana	1301076	3.96	277538	4.81	

**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry**  
(Arranged in Descending Order of Total Output)

Section 12

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
28	MACHINERY AND EQUIPMENT N.E.C.	All India	41376583	100.00	9451069	100.00
		TOTAL OF BELOW STATE/UTs	34367835	83.06	7965270	84.27
		Maharashtra	10604819	25.63	2492387	26.37
		Tamilnadu	7548932	18.24	1767532	18.70
		Gujarat	5780115	13.97	1354064	14.33
		Karnataka	3418533	8.26	837761	8.86
		Haryana	3242264	7.84	655265	6.93
		Punjab	2269601	5.49	516371	5.46
		Uttar Pradesh	1503571	3.63	341890	3.62
29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	All India	71303693	100.00	12646577	100.00
		TOTAL OF BELOW STATE/UTs	59755870	83.81	10715779	84.73
		Tamilnadu	19016531	26.67	3111778	24.61
		Haryana	15836064	22.21	3126039	24.72
		Maharashtra	13847432	19.42	2260552	17.87
		Karnataka	4891564	6.86	899905	7.12
		Uttarakhand	3119943	4.38	794765	6.28
		Jharkhand	3044336	4.27	522740	4.13
30	OTHER TRANSPORT EQUIPMENT	All India	22354935	100.00	4785274	100.00
		TOTAL OF BELOW STATE/UTs	18694826	83.64	3924947	82.03
		Maharashtra	5060327	22.64	1111116	23.22
		Haryana	3824034	17.11	791844	16.55
		Tamilnadu	3125883	13.98	767802	16.05
		Uttarakhand	2505192	11.21	516092	10.79
		Karnataka	1968417	8.81	399297	8.34
		Punjab	1161808	5.20	187828	3.93
Rajasthan	1049165	4.69	150968	3.15		
31	FURNITURE	All India	2418881	100.00	486277	100.00
		TOTAL OF BELOW STATE/UTs	1992606	82.39	402445	82.76
		Maharashtra	561102	23.20	104639	21.52
		Rajasthan	470855	19.47	95929	19.73
		Karnataka	276954	11.45	60905	12.52
		Uttar Pradesh	276623	11.44	48042	9.88
		Telangana	122164	5.05	22337	4.59
		Tamilnadu	113356	4.69	25700	5.29
		Haryana	111319	4.60	24844	5.11
		Uttarakhand	60233	2.49	20049	4.12

**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry  
(Arranged in Descending Order of Total Output)**

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
32	OTHER MANUFACTURING	All India	21138398	100.00	2401789	100.00
		TOTAL OF BELOW STATE/UTs	17118556	80.99	1549978	64.54
		Gujarat	5900305	27.91	606364	25.25
		Kerala	4330950	20.49	95255	3.97
		Maharashtra	3258496	15.42	442396	18.42
		Tamilnadu	1905771	9.02	307406	12.80
		Uttarakhand	1723034	8.15	98557	4.10
33	REPAIR AND INSTALLATION OF MACHINERY AND EQUIPMENT	All India	1002524	100.00	288390	100.00
		TOTAL OF BELOW STATE/UTs	831495	82.95	239606	83.09
		Maharashtra	328453	32.76	118636	41.14
		Telangana	170784	17.04	60078	20.83
		Tamilnadu	78350	7.82	20232	7.02
		Gujarat	69718	6.95	14103	4.89
		Andhra Pradesh	65973	6.58	20554	7.13
		West Bengal	47412	4.73	17202	5.96
		Karnataka	38071	3.80	19757	6.85
Delhi	32734	3.27	-30956	-10.73		
38	WASTE COLLECTION,TREATMENT AND DISPOSAL ACTIVITIES; MATERIALS RECOVERY	All India	1395505	100.00	191726	100.00
		TOTAL OF BELOW STATE/UTs	1139454	81.65	99888	52.10
		Gujarat	942291	67.52	75023	39.13
		Tamilnadu	123435	8.85	14864	7.75
Karnataka	73728	5.28	10001	5.22		
58	PUBLISHING ACTIVITIES	All India	679031	100.00	228511	100.00
		TOTAL OF BELOW STATE/UTs	566887	83.47	189405	82.90
		Karnataka	90819	13.37	49303	21.58
		West Bengal	83114	12.24	28524	12.48
		Telangana	76807	11.31	14254	6.24
		Kerala	70763	10.42	27120	11.87
		Tamilnadu	58070	8.55	21884	9.58
		Gujarat	55771	8.21	17895	7.83
		Andhra Pradesh	52550	7.74	10443	4.57
		Maharashtra	45384	6.68	13084	5.73
Rajasthan	33609	4.95	6898	3.02		

**Statement 19: Share of Major States/UTs contributing at least 80% in terms of Total Output within each Industry  
(Arranged in Descending Order of Total Output)**

Section 12

Industry Code(NIC-2008)	Description	State/UT	Total Output		GVA	
		(₹ Lakhs)				
			Actual	Percentage	Actual	Percentage
	ALL INDUSTRIES	All India	928179908	100.00	153801928	100.00
		TOTAL OF BELOW STATE/UTs	760805202	81.99	123586891	80.37
		Gujarat	161877155	17.44	22897857	14.89
		Maharashtra	133055982	14.34	23238342	15.11
		Tamilnadu	93834701	10.11	16828594	10.94
		Haryana	62391961	6.72	9334635	6.07
		Karnataka	57908174	6.24	10576055	6.88
		Uttar Pradesh	57905351	6.24	8289283	5.39
		Andhra Pradesh	37614334	4.05	4900685	3.19
		West Bengal	36533341	3.94	5099797	3.32
		Rajasthan	33277014	3.59	5678048	3.69
		Odisha	30238991	3.26	5305972	3.45
		Madhya Pradesh	29291311	3.16	5692052	3.70
		Telangana	26876887	2.90	5745571	3.74



# भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II — खण्ड I

PART II — Section 1

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं० 8]

नई दिल्ली, शुक्रवार, जनवरी 9, 2009/पौष 19, 1930

No. 8]

NEW DELHI, FRIDAY, JANUARY 9, 2009 / PAUSA 19, 1930

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
Separate paging is given to this Part in order that it may be filed as a separate compilation.

## MINISTRY OF LAW AND JUSTICE

(Legislative Department)

New Delhi, the 9th January, 2009/Pausa 19, 1930 (Saka)

The following Act of Parliament received the assent of the President on the 7th January, 2009, and is hereby published for general information:—

### THE COLLECTION OF STATISTICS ACT, 2008

No. 7 OF 2009

[7th January, 2009.]

An Act to facilitate the collection of statistics on economic, demographic, social, scientific and environmental aspects, and for matters connected therewith or incidental thereto.

BE it enacted by Parliament in the Fifty-ninth Year of the Republic of India as follows:—

#### CHAPTER I

#### PRELIMINARY

1. (1) This Act may be called the Collection of Statistics Act, 2008.
- (2) It extends to the whole of India except the State of Jammu and Kashmir.
- (3) It shall come into force on such date as the Central Government may, by notification in the Official Gazette, appoint.

Short title,  
extent and  
commence-  
ment.

2. In this Act, unless the context otherwise requires,—

Definitions.

(a) “agency” includes a person or persons engaged by the appropriate Government, directly or by outsourcing, for collection of statistics;

(b) “appropriate Government” means—

(i) any Ministry or Department in the Central Government; or

(ii) any Ministry or Department in a State Government or Union territory Administration; or

(iii) any local government that is to say, Panchayats or Municipalities, as the case may be,

in relation to the collection of statistics under a direction issued by it under section 3;

(c) "informant" means any person, who supplies or is required to supply statistical information and includes a owner or occupier or person in-charge or his authorised representative in respect of persons or a firm registered under the Indian Partnership Act, 1932 or a co-operative society registered under any Co-operative Societies Act or a company registered under the Companies Act, 1956 or a society registered under the Societies Registration Act, 1860 or any association recognised or registered under any law for the time being in force;

9 of 1932.  
1 of 1956.  
21 of 1860.

(d) "information schedule" means any book, document, form, card, tape, disc or any storage media on which information required is entered or recorded or is required to be entered or recorded for statistical purposes under this Act;

(e) "prescribed" means prescribed by rules made under this Act;

(f) "sampling" means a statistical procedure by which information relating to a particular field of inquiry is derived by applying statistical techniques to information obtained in respect of a proportion of the total number of persons or units concerned relevant to the field of inquiry;

(g) "statistical survey" means a census or a survey, whereby information is collected from all the informants in the field of inquiry or from a sample thereof, by an appropriate Government under this Act or any other relevant Act, wholly or primarily for the purposes of processing and summarising by appropriate statistical procedures;

(h) "statistics" means statistics derived by collecting, classifying and using statistics, specially in or for large quantities or numbers by appropriate Government from statistical surveys, administrative and registration records, and other forms and papers, the statistical analysis of which are, whether in a published or unpublished form;

(i) "statistics officer" means any officer appointed under section 4 for the purposes of any direction issued under section 3 of this Act.

## CHAPTER II

### COLLECTION OF STATISTICS

Collection of statistics.

3. The appropriate Government may, by notification in the Official Gazette, direct that the statistics on economic, demographic, social, scientific and environmental aspects shall be collected through a statistical survey or otherwise, and thereupon the provisions of this Act shall apply in relation to those statistics:

Provided that—

(a) nothing contained in this section shall be deemed to authorise a State Government or Union territory Administration or any local government to issue any direction with respect to the collection of statistics relating to any matter falling under any of the entries specified in List I (Union List) in the Seventh Schedule to the Constitution; or

(b) where the Central Government has issued any direction under this section for the collection of statistics relating to any matter, no State Government or Union territory Administration or any local government shall, except with the previous approval of the Central Government, issue any similar direction for so long as the collection of such statistics by the Central Government remain to be completed; or



(c) where a State Government or Union territory Administration or any local government has issued a direction under this section for the collection of statistics relating to any matter, the Central Government shall not issue any similar direction for so long as the collection of such statistics by the State Government remain to be completed, except in cases where such statistics have to be collected with reference to two or more States or Union territories.

4. (1) The appropriate Government may appoint or cause to appoint an officer to be the statistics officer for any geographical unit for the purpose of collecting any statistics directed by it.

Powers of appropriate Government to appoint statistics officer, etc.

(2) The appropriate Government may appoint any agency or persons working in such agencies to take, or aid in, or supervise the collection of the statistics within any specified geographical unit and such agencies or persons, when so appointed, shall be bound to serve accordingly.

(3) The appropriate Government may employ on contract basis any agency or company or organisation or association or person, on such terms and conditions and on such safeguards as may be prescribed, for the purpose of collecting the statistics directed by it.

(4) The appropriate Government may delegate to any statistics officer, as it thinks fit, the power of appointing agencies or persons working in such agencies or employing on contract basis any agency or company or organisation or association of persons, conferred on it by sub-sections (2) and (3) within the geographical unit for which such statistics officer is appointed.

(5) The appropriate Government may, by order specify the form, the particulars required or the interval within which, and the statistics officer to whom, the statistical information by the informants shall be furnished.

(6) The appropriate Government may, by order published in the Official Gazette, delegate to any statistics officer, as it thinks fit, any power conferred under sub-section (5) for the purpose of the collection of statistics under a direction issued by it under section 3.

5. The statistics officer may, for the purpose of collection of statistics on any specified subject in any geographical unit for which the said officer was appointed—

Power of statistics officer to call for information.

(a) serve or cause to be served on any informant a notice in writing asking him to furnish the information specified under sub-section (5) of section 4 or cause a information schedule to be given to any informant for the purpose of its being filled up; or

(b) cause all questions relating to the subject to be asked from any informant; or

(c) seek information through tele fax or telephone or e-mail or in any other electronic mode or in a combination of different modes for different sets of information so specified.

6. The informants who are asked to furnish any information under the provisions of this Act shall be bound to furnish the information so asked in the prescribed manner to the best of knowledge or belief; and in cases where only a portion of a particular class or group of persons or units is asked to furnish information because of any sampling procedure, it shall not be a defence in failure on the part of any informant to furnish that information, if so asked.

Duty of informants.

7. Every agency shall render such help and assistance and furnish such information to the statistics officer or a person or an agency authorised by him in writing, as he may require for the discharge of his functions, and shall make available for inspection and examination of such records, plans and other documents, as may be necessary.

All agencies to assist.

Right of access to records or documents.

8. The statistics officer or any person authorised by him in writing in this behalf shall, for the purposes of collection of any statistics under this Act, have access to any relevant record or document in the possession of any informant required to furnish any information under this Act, and may enter at any reasonable time any premises where he believes such record or document is kept and may inspect or take copies of relevant records or documents or ask any question necessary for obtaining any information required to be furnished under this Act.

### CHAPTER III

#### DISCLOSURE OF INFORMATION IN CERTAIN CASES AND RESTRICTIONS OF THEIR USE

Security of information.

9. (1) Any information furnished to the statistics officer or to any person or agencies authorised under this Act shall only be used for statistical purposes.

(2) No person other than a person engaged in the work of collection of statistics under this Act or preparation of statistics resultant to such collection shall be permitted to see any information schedule or any answer to a question asked, except for the purposes of a prosecution under this Act.

(3) No information contained in any information schedule and no answer to any question asked shall, except for the purposes of a prosecution under this Act, be separately published, or disclosed without suppressing the identification of informants to any agency.

(4) All statistical information published by any agency shall be arranged in such a manner so as to prevent any particulars becoming identifiable by any person (other than the informant by whom those particulars were supplied) as the particulars relating to the informant who supplied it, even through the process of elimination, unless—

(a) that informant has consented to their publication in that manner; or

(b) their publication in that manner could not reasonably have been foreseen by the concerned agency or any employee thereof.

(5) For the purposes of sub-section (4), the Central Government may make such rules or make such arrangement, as it may consider necessary.

Appropriate Government authorised to disclose certain information.

10. Notwithstanding the provisions contained in section 9 of this Act, the appropriate Government may disclose the following information, namely:—

(a) information supplied by informant in respect of which disclosure is consented to in writing by the informant or by any person authorised by the said informant;

(b) information otherwise available to the public under any Act or as a public document;

(c) information in the form of an index or list of the names and addresses of informants together with the classification, if any, allotted to them and the number of persons engaged.

Disclosure of information schedules for bona fide research or statistical purposes.

11. (1) Notwithstanding the provisions contained in section 9 of this Act, the appropriate Government may disclose individual returns or formats or information schedules to other agency or person or institutions or universities solely for *bona fide* research or statistical purposes pursuant to their functions and duties.

(2) No individual return or information schedule shall be disclosed pursuant to this section unless —

(a) the name and address of the informant by whom the schedule or related information was supplied is deleted;

(b) every agency or person or institutions or Universities involved in the research or statistical project makes a declaration to use the schedules disclosed to them only for *bona fide* research or statistical purposes; and

(c) the appropriate Government, making such disclosure is satisfied that the security of the schedules and any information contained therein shall not be impaired.

(3) The published results of any research or statistical project shall not divulge any more information than what the agency authorised for collection of statistics could publish under this Act.

(4) Every agency or person or institutions or universities to whom any individual return or information schedule is disclosed under this section shall comply with directions given by the agency authorised for collection of statistics making the disclosure relating to the schedules and any information contained therein.

12. Notwithstanding anything contained in section 9 of this Act, the appropriate Government may release such documents relating to information schedules, which in its opinion have attained historical importance.

Disclosure of historical documents.

13. The statistics officer or any person or agency authorised for collection of statistics shall, while copying or recording any statistical information collected pursuant to this Act from individual returns, information schedules, worksheets or any other confidential source by means of cards, tapes, discs, film or any other method, whether using encoded or plain language symbols for processing, storage or reproduction of particulars, take and cause to take such steps as are necessary to ensure that the security provisions of this Act are complied with.

Security of recorded information.

14. Save as otherwise provided under this Act,—

Restrictions on use of information.

(a) no information obtained pursuant to this Act and no copy of the information in the possession of any informant shall be disclosed or used as evidence in any proceedings whatsoever; and

(b) no person who has access to any information because of his official position in the collection of any statistics shall be compelled in any proceedings whatsoever to give oral testimony regarding the information or to produce any schedule, document, or record with respect to any information obtained in the course of administering this Act,

except in the manner provided under this Act.

#### CHAPTER IV

##### OFFENCES AND PENALTIES

15. (1) Whoever, fails to produce any books of accounts, vouchers, documents or other business records or whoever neglects or refuses to fill in and supply the particulars required in any information schedule or return given or sent to him or whoever neglects or refuses to answer any question or inquiry addressed to him as may be required under or for the purposes of any provision of this Act and the rules made thereunder, shall be punishable with a fine which may extend to one thousand rupees or, in the case of a company, with a fine which may extend to five thousand rupees.

Penalty for neglect or refusal to supply particulars.

(2) The conviction of a person or company for an offence shall not relieve him or it of the obligations under sub-section (1) and if after the expiry of fourteen days from the date of conviction, he or it still fails to give the required particulars or continues to neglect or refuses to fill in and supply the particulars or to answer the question or inquiry, then he or it shall be punishable with a further fine which may extend to one thousand rupees or, in the case of a



company, with a fine which may extend to five thousand rupees, for each day after the first during which the failure continues.

Penalty for making false statement.

16. Whoever, wilfully makes any false or misleading statement or material omission in any information schedule or return filled in or supplied, or in answer to any question asked to him under this Act or the rules made thereunder, shall be punishable with simple imprisonment for a term which may extend to six months or with a fine which may extend to one thousand rupees or, in the case of a company, with a fine which may extend to five thousand rupees or with both.

Penalty for mutilation or defacement of information schedule.

17. Whoever, destroys, defaces, removes, or mutilates any information schedule, form, or other document containing particulars collected under this Act or requesting any such particulars, shall be punishable with simple imprisonment for a term which may extend to six months or with a fine which may extend to two thousand rupees or, in the case of a company with a fine which may extend to ten thousand rupees or with both.

Penalty for obstruction of employees.

18. Whoever, interferes with, hinders, or obstructs any employee in the exercise of any power or duty conferred by this Act, shall be punishable with simple imprisonment for a term which may extend to six months or with a fine which may extend to two thousand rupees or, in the case of a company with a fine which may extend to ten thousand rupees or with both.

Penalty for other offences.

19. Whoever—

(a) acts in contravention of or fails to comply with any provision of this Act or any requirement imposed under this Act; or

(b) wilfully deceives or attempts to deceive any statistics officer or any agency or any employee thereof,

shall be punishable with simple imprisonment for a term which may extend to six months or with a fine which may extend to two thousand rupees or, in the case of a company, with a fine which may extend to ten thousand rupees or with both.

Penalty for failure to carry out duties and functions by employees.

20. If any person employed in the execution of any duty or functions under this Act,—

(a) omits without lawful excuse to carry out his duty, or knowingly makes any false declaration, statement or return; or

(b) pretends performance of his duties or obtains or seeks to obtain information which he is not authorised to obtain; or

(c) fails to keep inviolate the secrecy of the information gathered or entered in the information schedules collected pursuant to this Act and, except as permitted under this Act, divulges the contents of any schedule filled in or any information furnished by any informant under this Act,

shall be punishable with simple imprisonment for a term which may extend to six months or with a fine which may extend to two thousand rupees or, in the case of a company, with a fine which may extend to ten thousand rupees or with both.

Penalty for impersonation of employee.

21. Whoever, not being authorised to collect statistics under the provisions of this Act, by words, conduct or demeanor pretends that he is authorised to do so, shall be punishable with simple imprisonment for a term which may extend to six months or with a fine which may extend to two thousand rupees or, in the case of a company, with a fine which may extend to ten thousand rupees or with both.

General penalty.

22. Whoever, commits an offence under this Act for which no penalty is prescribed elsewhere than in this section, shall be punishable with simple imprisonment for a term which may extend to six months or with a fine which may extend to two thousand rupees or, in the case of a company, with a fine which may extend to ten thousand rupees or with both.

23. (1) Where an offence under this Act has been committed by a company, every person who at the time the offence was committed was in charge of, and was responsible to, the company for the conduct of the business of the company, as well as the company, shall be deemed to be guilty of the offence and shall be liable to be proceeded against and punished accordingly:

Offences by companies.

Provided that nothing contained in this sub-section shall render any such person liable to any punishment provided in this Act, if he proves that the offence was committed without his knowledge or that he had exercised all due diligence to prevent the commission of such offence.

(2) Notwithstanding anything contained in sub-section (1), where an offence under this Act has been committed by a company and it is proved that the offence has been committed with the consent or connivance of, or is attributable to, any neglect on the part of any director, manager, secretary or other officer of the company, such director, manager, secretary or other officer shall also be deemed to be guilty of the offence and shall be liable to be proceeded against and punished accordingly.

*Explanation.*—For the purpose of this section—

(a) “company” means any body corporate and includes a firm or other association of individuals; and

(b) “Director”, in relation to a firm, means a partner in the firm.

24. No court shall take cognizance of any offence under this Act except on a complaint made by the appropriate Government or an officer authorised in this behalf by such appropriate Government or, as the case may be, the statistics officer, and no court inferior to that of a Metropolitan Magistrate or a Judicial Magistrate of the first class shall try any offence punishable under this Act.

Cognizance of offences.

25. No prosecution for an offence committed by any informant shall be instituted except by or with the sanction of the statistics officer, and no prosecution for an offence committed by persons other than informants shall be instituted except by or with the consent of the appropriate Government.

Sanction for prosecution for offence.

2 of 1974.

26. Notwithstanding anything contained in the Code of Criminal Procedure, 1973, all offences under this Act shall be tried in a summary way by a Judicial Magistrate of the first class or by a Metropolitan Magistrate and the provisions of sections 262 to 265 (both inclusive) of the said Code shall, as far as may be, apply to such trial:

Power of court to try cases summarily.

Provided that when in the course of, a summary trial under this section it appears to the Magistrate that the nature of the case is such that it is, for any reason, undesirable to try the case summarily, the Magistrate shall after hearing the parties, record an order to that effect and thereafter recall any witness who may have been examined and proceed to hear or rehear the case in the manner provided by the said Code.

## CHAPTER V

### POWER IN RESPECT OF CORE STATISTICS

27. Without prejudice to the provisions contained in this Act, the Central Government may, by notification in the Official Gazette, declare from time to time any subject for the collection of statistics of national importance as ‘core statistics’ and make such arrangement, as it may consider necessary, for regulating the collection and dissemination of statistics on the subject so declared.

Power in respect of core statistics.

## CHAPTER VI

### MISCELLANEOUS

28. The Central Government may give directions to any State Government or Union territory Administration or to any local government that is to say Panchayats or Municipalities, as to the carrying into execution of this Act in the State or Union territory or Panchayats or Municipalities, as the case may be.

Power to give directions.

29. Any statistics officer and any person authorised for the collection of statistics or preparation of official statistics under the provisions of this Act shall be deemed to be a public servant within the meaning of section 21 of the Indian Penal Code, 1860.

Public servants.

45 of 1860.

## THE GAZETTE OF INDIA EXTRAORDINARY [PART II—SEC. 1]

Bar of jurisdiction.

30. No civil court shall have jurisdiction to entertain any suit or proceeding in respect of any matter which the appropriate Government or the statistics officer or the agency is empowered by or under this Act to determine, and no injunction shall be granted by any court or other authority in respect of any action taken or to be taken in pursuance of any power conferred by or under this Act.

Protection of action taken in good faith.

31. No suit or other legal proceedings shall lie against the appropriate Government or agency or any statistics officer or other officers or employees in respect of anything which is in good faith done or intended to be done in pursuance of this Act or the rules or directions issued thereunder.

Overriding effect.

32. The provisions of this Act shall have effect notwithstanding anything inconsistent therewith contained in any other law for the time being in force except in relation to the conduct of human population census as per the directions, if any, issued under the Census Act, 1948.

37 of 1948.

Power to make rules.

33. (1) The Central Government may, by notification in the Official Gazette, make rules for carrying out the provisions of this Act.

(2) In particular, and without prejudice to the generality of the foregoing power, the Central Government may make rules under this section for all or any of the following matters, namely:—

(a) principles for coordinating as effectively as possible to achieve the objectives of section 3 including nomination and registration of statistics officers by the Central Government and also to avoid unnecessary duplication in the collection of statistics;

(b) the terms, conditions and safeguards under which any person or agency or company or organisation or association may be engaged by the appropriate Government for the purpose of collection of statistics under sub-section (3) of section 4;

(c) principles for prescribing the form and manner in which the information may be required to be furnished;

(d) principles for prescribing the manner in which the right of access to documents and the right of entry conferred by section 8 may be exercised; and

(e) any other matter which is to be or may be prescribed under this Act.

(3) Every rule made by the Central Government under this Act shall be laid, as soon as may be after it is made, before each House of Parliament, while it is in session, for a total period of thirty days which may be comprised in one session or in two or more successive sessions, and if, before the expiry of the session immediately following the session or the successive sessions aforesaid, both Houses agree in making any modification in the rule or both Houses agree that the rule should not be made, the rule shall thereafter have effect only in such modified form or be of no effect, as the case may be; so, however, that any such modification or annulment shall be without prejudice to the validity of anything previously done under that rule.

Repeal and savings.

34. (1) The Collection of Statistics Act, 1953 is hereby repealed.

32 of 1953.

(2) Notwithstanding such repeal, anything done or any action taken under the said Act shall be deemed to have been done or taken under the corresponding provisions of this Act.

(3) All rules made under the said Act shall continue to be in force and operate till new rules are made under this Act.

T. K. VISWANATHAN,  
Secy. to the Govt. of India.



**MINISTRY OF STATISTICS AND PROGRAMME IMPLEMENTATION****NOTIFICATION**

New Delhi, the 16th May, 2011

**G.S.R. 387(E).**— In exercise of the powers conferred by section 33 of the Collection of Statistics Act, 2008 (7 of 2009), the Central Government hereby makes the following rules, namely:-

**COLLECTION OF STATISTICS RULES, 2011**

**1. Short title and commencement:** (1) These rules may be called the Collection of Statistics Rules, 2011.

(2) They shall come into force on the date of their publication in the Official Gazette.

**2. Definitions:** (1) In these rules, unless the context otherwise requires –

- (a) 'Act' means the Collection of Statistics Act, 2008;
- (b) "Form" means a form appended to these rules;
- (c) 'nodal officer' means an officer designated as nodal officer under rule 3 of these rules;
- (d) "personal information" means any information, whether true or not, and whether recorded in a material form or not, about an informant whose identity can reasonably be ascertained from such information;
- (e) "reference period" means the time period over which the data collected reflects the characteristics of the units of enumeration;
- (f) "State Government", in relation to a Union territory, means the Administration thereof; and
- (g) "outsourcing" means making use of the services of a private service provider for the purposes of these rules.

(2) Words and expressions used but not defined herein shall have the meanings respectively assigned to them in the Act.

**3. Nodal officer.** – (1) The Central Government shall designate an officer not below the rank of a Joint Secretary to the Government of India in a nodal Department dealing with statistical matters, as the nodal officer for exercising powers and performing duties under these rules.

(2) Every State Government shall designate an officer not below the rank of a Deputy Secretary to the State Government in a nodal Department dealing with statistical matters, as the nodal officer for exercising powers and performing duties under these rules.

**4. Powers and duties of nodal officer.** - (1) The nodal officer designated by the Central Government under sub-rule (1) of rule 3 shall –

- (a) maintain and update register of statistics officers appointed by the Central Government;
- (b) obtain and maintain, from time to time, information on availability of statistics including unit-level data, whether collected under the provisions of the Act or not, with different Departments of the Central Government and nodal officers in the States;
- (c) advise the Departments of the Central Government and the nodal officers in the States on steps to improve the statistical potential of administrative records to avoid conducting separate statistical surveys to collect statistics contained or purported to be contained in such administrative records;
- (d) issue instructions from time to time on promoting the sharing of statistical information including unit-level data among different Departments of the Central Government and States to avoid unnecessary duplication of programmes of collection of statistics and resolve disputes or differences of opinion, if any, among them on the issue; and
- (e) submit annual report to the Central Government on the working.

(2) The nodal officer designated by the State Government under sub-rule (2) of rule 3 shall –

- (a) maintain and update a register of statistics officers appointed from time to time in the State;
- (b) obtain and maintain from time to time information on availability of statistics including unit-level data, whether collected under the provisions of the Act or not, with different Government Departments and local governments in the State;
- (c) advise the Departments of the State Government and local governments in the State on steps to improve the statistical potential of administrative records to avoid conducting separate statistical surveys to collect statistics contained or purported to be contained in such administrative records;

1736 GI/11-4



- (d) issue instructions from time to time on promoting the sharing of statistical information including unit-level data among Departments of the State Government and local governments in the State to avoid unnecessary duplication of programmes of collection of statistics and resolve disputes or differences of opinion, if any, among them on the issue; and
- (e) obtain reports, as may be required, on the working of this Act from Government Departments and local governments in the State and submit annual reports on the working of this Act in the State to the nodal officer appointed by the Central Government.

**5. Direction on collection of statistics.-** (1) Any Department in a State Government or any local government in a State shall, before making a direction under section 3 of the Act for collection of statistics on any subject for any reference period in any geographical unit under its jurisdiction, consult the nodal officer in the State to avoid unnecessary duplication in collection of statistics.

(2) Any Department of the Central Government shall, before making a direction under section 3 of the Act for collection of statistics on any subject for any reference period in any geographical unit under its jurisdiction, consult the nodal officer of the Central Government to avoid unnecessary duplication in collection of statistics.

(3) The nodal officer shall, on receipt of any request under sub-rule (1) or sub-rule (2), as the case may be, within a period of one month render such advice as may be necessary to the concerned office to avoid unnecessary duplication in collection of statistics.

(4) The appropriate Government on receipt of advice under sub-rule (3) shall communicate to the nodal officer, the reasons in all cases of disagreement with such advice, at least fifteen days prior to issuing notification under section 3 of the Act.

(5) Every notification under section 3 of the Act shall contain the following particulars, namely: -

- (a) subject and purpose for collection of statistics;
- (b) geographical area for collection of statistics;
- (c) method of data collection;
- (d) nature of informants from whom data may be collected;
- (e) period during which collection of statistics may be completed;
- (f) reference period;
- (g) nature of information to be collected;
- (h) language in which information is to be furnished by informant;
- (i) obligation of informant;

- (j) nature of business records and other records which may be inspected; and
- (k) the manner of inspection.

(6) A copy of every notification referred in sub-rule (5) shall be forwarded to the nodal officer of the Central Government and the nodal officer of the State concerned.

**6. Principles for prescribing information schedules.** - In respect of prescribing any information schedule for collection of statistics on any subject, the appropriate Government or a statistics officer, as the case may be, shall satisfy itself that –

- (i) it has authority to direct collection of statistics on the subject under the Act subject to the restrictions given in the proviso to section 3 of the Act;
- (ii) it has, for the purpose of finalising items on which information is to be collected, consulted the nodal officer to include the requirements of other Government Departments;
- (iii) excessive demands would not be placed on the informants by making the direction and for the purpose field testing of information schedules has been carried out where necessary;
- (iv) the range and detail in the information schedules specified for collection of statistics on any subject shall be limited to what is absolutely necessary;
- (v) the reporting burden shall be spread as widely as possible over informant populations through appropriate sampling;
- (vi) the information sought from business shall, as far as possible, be readily available from their accounts and electronic means are used where possible to facilitate their collection;
- (vii) best estimates and approximations on any item of information sought shall be accepted when exact details are not readily available with any informant;
- (viii) each information schedule used for collecting statistics from any informant has, where necessary, a provision for particulars on which information may be furnished at the discretion of the informant;
- (ix) provision is made in each information schedule for filling up the details and appending the signature of the person concerned who would be engaged in the collection of statistics;
- (x) indicate in each information schedule, for general information of informants prior to collection of statistics from them under the Act, its plan, if any, to disclose any information collected from them which in the opinion of the appropriate Government is otherwise available to the public under any other Act or as a public document or which is in the form of an index or list of the names and addresses of informants together with the classification, if any, allotted to them and the number of persons engaged; and



- (xi) make a provision in each information schedule to obtain written consent from each informant whose information other than the information covered in clause (x), it proposes to disclose.

**7. Appointment of statistics officers.** - (1) Every notification under section 4 of the Act appointing the statistics officer shall contain the following particulars, namely: -

- (a) name, designation and address of the officer appointed as statistics officer for each geographical unit for collection of statistics;
- (b) details of any agency or company or organisation or association or person engaged for collection of statistics, and, terms and conditions of engagement and safeguards laid down for the purpose;
- (c) the form and the particulars required or the interval within which, and the statistics officer to whom, the statistical information by the informants shall be furnished; and
- (d) the powers, if any, delegated under sub-sections (4) or (6) of section 4 the Act to any statistics officer.

(2) Every statistics officer, immediately on his appointment, shall submit an undertaking in Form-I to the appropriate Government.

**8. Registration of statistics officers.** - The appropriate Government shall maintain a record of statistics officers in respect of their appointment, their terms and geographical areas for which they have been appointed, in Form-II.

**9. Powers and functions of a statistics officer.** - A statistics officer, appointed for the purposes of collection of statistics on any subject in any geographical unit, shall -

- (i) take, aid in and supervise the collection of statistics;
- (ii) cause agencies to be appointed or engaged for collection of statistics;
- (iii) obtain undertaking from all the persons engaged in the collection of statistics in Form-I and forward them to the appropriate Government or to an officer authorised for the purpose by that Government;
- (iv) devise or cause to devise relevant information schedules and the mode or modes of collection of statistics;
- (v) allot or cause to allot work of collection of statistics in his jurisdiction to different persons and agencies engaged for the purpose;
- (vi) provide all the relevant material to be distributed to agencies engaged and arrange for their training for facilitating collection of statistics;
- (vii) cause to provide necessary publicity for collection of statistics at an appropriate time;
- (viii) coordinate the work of all agencies during the period of collection of statistics and maintain liaison with local authorities for smooth conduct of the collection of statistics;

- (ix) cause notices to informants for furnishing information issued under his signature, where necessary and cause acknowledgements received from such informants, to be kept in safe custody;
- (x) take steps, in case of statistical surveys having the same set of informants with different reference periods, to issue only one notice to each informant indicating therein the information required to be furnished and the reference periods for which the information is required;
- (xi) cause entry of persons authorised by him in writing and carrying a photo-identity card issued by him into any premises of any informant for collection of statistics;
- (xii) cause necessary assistance provided to informants requiring such assistance for furnishing the information sought;
- (xiii) cause access to any informant to the information collected from that informant for facilitating intimation of corrections or amendments on any inaccurate information;
- (xiv) cause verification of information furnished by any informant;
- (xv) based on complaints or otherwise, take action against erring persons and others in accordance with the provisions of the Act and these rules;
- (xvi) obtain from the agencies engaged in the collection of statistics, all the information schedules, all the undertakings obtained from persons engaged in collection of statistics, all other relevant records and documents on completion of their work and forward them with a certificate to that effect to the appropriate Government or to any officer authorised by that Government;
- (xvii) carry out such other tasks as may be necessary for the successful collection of statistics; and
- (xviii) submit periodical reports as may be specified by the appropriate Government.

**10. Assistance in collection of statistics.** - (1) Every Department of the Central Government or the State Government or the local governments shall furnish within such time and in such form as required, the list of informants and other information which is available with them, relevant for conducting any statistical survey under these rules to a statistics officer or any agency or person authorised by the appropriate Government upon receipt of a notice to that effect.

(2) The appropriate Government or a statistics officer, as the case may be, may write to any Department of the Central Government or the State Government or any local government specifying the nature of assistance required for collection of statistics under the Act and upon receipt of such communication, the latter shall comply with the requirement to the extent feasible.

(3) In cases of collection of statistics in disturbed areas, the police, the para-military and the armed forces shall provide such assistance as would be required by the concerned statistics officer.

1736 GI/11-5



**11. Duty to furnish information.** - Subject to the provisions of section 6 of the Act,

(1) every informant shall, on demand, produce or give a copy of any books of accounts, vouchers, documents, or other business records or personal records or documents in his possession relevant to collection of statistics under the Act to any statistics officer or any person authorised by him in writing and carrying a photo-identity card issued by him, and the statistics officer or the authorised person, as the case may be, may take a copy or extract of such record or document; and

(2) the head of every family shall be responsible to furnish or cause to furnish the correct details of name and number of members, other particulars, records and documents, as may be required, of the family of which he is the head including dependants:

provided that in so far as inmates of institutions, such as orphanages, old age homes, and mental asylums are concerned, the responsibility for providing or causing to provide the requisite details, records and documents shall lie with the head of the Institution.

**12. General terms, conditions and safeguards for outsourcing.** - Every contract or arrangement for collection of statistics under the Act by any person or agency or company or organisation or association shall be subject to the following terms, conditions, and safeguards, namely: -

- (a) outsourcing arrangements shall be subject to a formal and comprehensive written contract;
- (b) functions which are to be decided and enforced by the appropriate government under the Act shall not be outsourced;
- (c) appropriate Government or a statistics officer authorised for the purpose by that Government shall have a right, of information and conduct or order on-site inspections in an outsourcing service provider's premises or place of work and right to cancel contract in case of unsatisfactory performance;
- (d) every agency, engaged in collection of statistics, shall render such help and assistance and furnish such information to the statistics officer or a person or an agency authorised by him in writing, as he may require for the discharge of his functions, and shall make available for inspection and examination such records, plans and other documents, as may be necessary;
- (e) persons engaged by any agency for collection of statistics, are made aware of the agency's obligations, and they shall submit a written undertaking in Form-I to the concerned statistics officer not to access, use, disclose or retain personal information except in performing their duties of employment or contractual obligations; and are informed that failure to comply with the provisions of the Act and these rules may be an offence rendering themselves for punishment as per the provisions of the Act;

- (f) each person engaged in any activity relating to the collection of statistics shall be bound by the provisions of the Act and these rules, the violation of which shall render him punishable as per the provisions of the Act;
- (g) provisions relating to disclosure of information and restrictions of their use under sections 9, 10, 11, 12, 13 and 14 of the Act and these rules shall have effect during the period of collection of statistics provided in the contract and shall continue to have effect even after the termination or completion of the contract, as the case may be;
- (h) the appropriate Government or any statistics officer on receipt of any complaint shall immediately communicate the agency engaged in collection of statistics of only those details of the complaint, as may be necessary to minimize any breach or prevent further breaches of the agreement or failure to comply with any of the provisions of the Act or these rules;
- (i) if any agency engaged in collection of statistics receives any complaint from any informant, it shall immediately communicate the complaint to the appropriate Government or the concerned statistics officer, as may be required;
- (j) the appropriate Government or the statistics officer may, on receipt of any communication under clauses (h) or (i), give directions, as may be necessary, to the agency; and
- (k) the statistics officer and every person engaged in the collection of statistics shall, on completion of their work, handover all the records and documents and furnish a certificate to that effect to the appropriate Government or to an officer authorised for the purpose by that Government.

**13. Restrictions on use of personal information.** - Each agency engaged in collection of statistics shall take all reasonable measures to ensure that -

- (a) personal information is protected against unauthorised access, disclosure or other misuse;
- (b) the agency uses personal information only for the purpose of fulfilling its obligations under a specified contract;
- (c) in case of repetitive statistical surveys with a common set of informants, the agency uses the personal information earlier collected only for the purpose of setting up interviews with or otherwise contacting informants; and
- (d) the agency uses personal information for data processing only with adequate security checks.

**14. Right of entry into any premises of informants.** - A statistics officer or any person authorised by him in writing and carrying a photo-identity card issued by the statistics officer, shall, during the period of collection of statistics for the purpose of collection of statistics under the Act or for inspection and examination of records, and documents in connection with it, during 10.00 hrs to 17.00 hrs on any day or at a time mutually convenient to both the parties have the right to enter the premises of any informant in the portion of the premises normally entered by visitors or guests or as suggested by the informant.

1736 GI/11-5



**15. Processing of complaints -** (1) In cases of alleged offences committed by any informant as per provisions of the Act, any statistics officer, after making such inquiries as deemed fit, may cause a notice issued to the informant in writing to show cause within a reasonable period to be specified in the notice as to why prosecution under the Act shall not be sanctioned for committing the alleged offence.

(2) A statistics officer shall consider the explanation, if any, furnished by the informant in pursuance to the notice issued under sub-rule (1), and after satisfying himself, for reasons to be recorded in writing, sanction for institution of prosecution of the informant.

(3) In case of any alleged offences committed by any person other than an informant, the appropriate Government may, after making such inquiries as deemed fit, cause a notice issued to the person in writing to show cause within a reasonable period to be specified in the notice as to why prosecution under the Act shall not be sanctioned for committing the alleged offence.

(4) The appropriate Government may, if it considers necessary, send a copy of the show-cause notice issued under sub-rule (3) of this rule and the explanation, if any, received from the alleged offender to the concerned statistics officer and obtain his recommendation on it, and after considering the explanation of the alleged offender and recommendation of statistics.

**16. Storage of data and records. -** Subject to the provisions of section 13 of the Act, the appropriate Government or an officer authorised by that Government shall, provide details by which any informant could access his own information for facilitating intimation of corrections or amendments on any inaccurate information, store the statistics collected under the provisions of the Act in such a manner as would facilitate easy retrieval of information collected from any informant so as to provide access to the informant, if necessary and keep all the undertakings and other material obtained from the statistics officers and other persons or agencies engaged in collection of statistics in safe custody.

**Form-I**

[See rules 7 (2), 9 (iii), 12 (e)]

Undertaking by statistics officer and other persons to be engaged in any capacity for collection of statistics under the provisions of the Collection of Statistics Act, 2008 (7 of 2009)

I, \_\_\_\_\_ (Full Name), born on \_\_\_\_ (Date of birth), son/ daughter/ wife of \_\_\_\_\_ (Name of person) resident of \_\_\_\_\_ (address) do hereby solemnly affirm, that I accept the responsibility \_\_\_\_\_ (nature of work) assigned to me for collection of statistics in respect of \_\_\_\_\_ (direction under section 3 of the Act) under the Collection of Statistics Act, 2008 (7 of 2009) and the Collection of Statistics Rules, 2011, that I shall not access, use, disclose or retain personal information of any informant except in performing my duties of employment or contractual obligations in respect of collection of statistics, and that in case of any violation on my part to comply with the provisions of the Act and the rules made thereunder, and I shall render myself punishable as per the provisions of the Act.

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of statistics officer or the person engaged in any capacity for collection of statistics



**Form-II**  
(See rule 8)

**Register of statistics officers to be maintained by the appropriate Government**

1. Details of the direction issued under section 3 of the Collection of Statistics Act, 2008:
2. Name and address of the appropriate Government making direction:
3. Details of statistics officers appointed for collection of statistics under the aforesaid direction:

S. No.	Name of statistics officer	Permanent address	Educational qualifications and experience, if any, in collection of statistics	Geographical unit for which appointed and period of appointment	Powers, if any, delegated under section 4 (4) and (6) of the Act
(1)	(2)	(3)	(4)	(5)	(6)

Date of appointment	Date of termination of appointment
(7)	(8)

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature with office seal of the officer  
responsible for maintaining  
the record of statistics officers

[F. No. M-15011/1/2007-Admn. III]

Prof. T.C.A. ANANT, Secy.

रजिस्ट्री सं० डी० एल०—(एन)04/0007/2003—17

REGISTERED NO. DL—(N)04/0007/2003—17



# भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II — खण्ड 1

PART II — Section 1

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं० 31]

नई दिल्ली, शनिवार, अगस्त 5, 2017/श्रावण 14, 1939 (शक)

No. 31] NEW DELHI, SATURDAY, AUGUST 5, 2017/SHRAVANA 14, 1939 (SAKA)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

## MINISTRY OF LAW AND JUSTICE

(Legislative Department)

New Delhi, the 5th August, 2017/Shravana 14, 1939 (Saka)

The following Act of Parliament received the assent of the President on the 4th August, 2017 and is hereby published for general information:—

### THE COLLECTION OF STATISTICS (AMENDMENT) ACT, 2017

No. 21 OF 2017

[4th August, 2017.]

#### An Act to amend the Collection of Statistics Act, 2008.

BE it enacted by Parliament in the Sixty-eighth Year of the Republic of India as follows:—

1. (1) This Act may be called the Collection of Statistics (Amendment) Act, 2017.

Short title and commencement.

(2) It shall come into force on such date as the Central Government may, by notification in the Official Gazette, appoint.

7 of 2009.

2. In the Collection of Statistics Act, 2008 (hereinafter referred to as the principal Act), in section 1, for sub-section (2), the following sub-section shall be substituted, namely:—

Amendment of section 1.

"(2) It extends to the whole of India :

Provided that it shall apply to the State of Jammu and Kashmir in so far as it relates to statistics pertaining to matters falling under any of the entries specified in List I (Union List) or List III (Concurrent List) in the Seventh Schedule to the Constitution as applicable to that State."

Amendment  
of section 2.

**3.** In the principal Act, in section 2, after clause (d), the following clause shall be inserted, namely:—

'(da) "nodal officer" means the officer designated as a nodal officer under sub-section (1) of section 3A;'

Insertion of  
new section  
3A.

**4.** In the principal Act, after section 3, the following section shall be inserted, namely:—

Nodal officer.

"3A. (1) The Central Government or a State Government or Union territory Administration shall designate one of its officers as a nodal officer for the purposes of statistics under this Act.

(2) The nodal officer shall coordinate and supervise such statistical activities in the Central Government or the State Government or Union territory Administration, as the case may be, in which he is designated, and shall exercise such other powers and perform such other duties, as may be prescribed."

Amendment  
of section 9.

**5.** In the principal Act, in section 9, for sub-section (1), the following sub-section shall be substituted, namely:—

"(1) The statistics officer or any person or agencies authorised under this Act shall, for statistical purposes, use any information furnished under section 6 in such manner as may be prescribed."

Amendment  
of section 33.

**6.** In the principal Act, in section 33,—

(i) in sub-section (1), after the words "The Central Government may", the words "subject to the condition of previous publication" shall be inserted;

(ii) in sub-section (2),—

(A) after clause (a), the following clause shall be inserted, namely:—

"(aa) the coordination and supervision of statistical activities by the nodal officer and the powers and duties of the nodal officer under sub-section (2) of section 3A;"

(B) after clause (d), the following clause shall be inserted, namely:—

"(da) the manner of use of information under sub-section (1) of section 9;"

DR. G. NARAYANA RAJU,  
*Secretary to the Govt. of India.*

## Estimation Procedure

### 1. Notations:

$i$  = subscript for  $i$ -th state.

$s$  = subscript for  $s$ -th stratum in the  $i$ -th state.

$m$  = subscript for sub-sample ( $m = 1, 2, 3, 4$ ) [ $m=1$  and  $3$  for central and  $2$  and  $4$  for state].

$k$  = subscript for  $k$ -th sample enterprise under a particular stratum.

$E$  = total number of factories **in the sample sector** in a stratum.

$e$  = number of factories surveyed out of total number of factories **in the sample sector** in a stratum.

$x, y$  = observed value of characteristics  $x, y$  under estimation.

$\hat{X}, \hat{Y}$  = estimate of population total  $X, Y$  for the characteristics  $x, y$ .

Under the above symbols,

$Y_{ismk}$  = observed value of the characteristic  $y$  for the  $k$ -th unit belonging to the  $m$ -th sub-sample for the  $s$ -th stratum in the  $i$ -th state.

### (a) Formulae for estimation of aggregates for a state based on central sample:

The central sample consists of two parts: i) **Census Sector** where complete enumeration of units was done and ii) **Sample Sector** where units are selected from two sub-samples (sub-sample numbers being '1' and '3') from each stratum. Please note that the sub-samples '2' and '4' in each stratum are to be surveyed by State governments and those are considered as **State Sample**.

The estimation formula for any characteristic of the unit **in the sample sector** for  $m$ -th sub-sample in  $s$ -th strata of the  $i$ -th state is:

$${}^s\hat{Y}'_{ism} = \frac{E_{is}}{e_{ism}} \sum_{k=1}^{e_{ism}} y_{ismk}, \quad m=1,3. \quad \dots\dots\dots (1.1)$$

Now the estimate of the parameter pertaining to sample sector of  $s$ -th stratum in the  $i$ -th State ( ${}^s\hat{Y}'_{is}$ ) is the simple average of sub-sample estimates of the  $s$ -th stratum in the  $i$ -th State,  ${}^s\hat{Y}'_{ism}$ ,  $m=1,3$  i.e.,

$${}^s\hat{Y}'_{is} = \frac{1}{2} \sum_{m=1,3} {}^s\hat{Y}'_{ism}.$$

Thus, the estimator for any characteristic of the unit **in the sample sector** of the  $i^{\text{th}}$  state is:

$${}^s\hat{Y}'_i = \sum_s {}^s\hat{Y}'_{is} \quad \dots\dots\dots (1.2)$$

Now, if  ${}^c\hat{Y}''_i$  be the corresponding estimator for that characteristic of the unit **for the census sector** of the  $i$ -th state, then the estimate for the census sector,  ${}^c\hat{Y}''_i$ , will be simple addition of value of the characteristic  $y$  under the domain since the multiplier associated with each unit of the census sector is equal to 1. Thus, the estimate for that characteristic of the unit for  $i^{\text{th}}$  State **as a whole** based on the central sample is given by:

$${}^{\text{Central}}\hat{Y}_i = {}^s\hat{Y}'_i + {}^c\hat{Y}''_i \quad \dots\dots\dots (2)$$

The estimate of the characteristic of the unit for all-India will be:

$$\text{Central } \hat{Y} = \sum_i \text{Central } \hat{Y}_i \quad \dots\dots\dots (3)$$

(b) **Formulae for estimation of aggregates for a state based on state sample:**

As mentioned before the sub-samples '2' and '4' pertain to State Sample. The estimation formula for any characteristics of the unit **in the sample sector of the State sample**<sup>1</sup> for m-th sub-sample of the i-th state is:

$$\text{State } \hat{Y}'_{ism} = \frac{E_{is}}{e_{ism}} \sum_{k=1}^{e_{ism}} y_{ismk}, \quad m=2,4. \quad \dots\dots\dots (4.1)$$

where superscript 'State' in  $\text{State } \hat{Y}'_{ism}$  indicates that the estimate of Characteristic Y generated from state sample for m<sup>th</sup> sub-sample of s<sup>th</sup> stratum in i<sup>th</sup> State. Now, the Estimation formula for a characteristic y of the unit **for the sample sector** in s-th stratum of the i-th state **based on state sample** is the simple average of sub-sample estimates of the s-th stratum in the i-th State,  $\text{State } \hat{Y}'_{ism}$ , m=2,4 i.e.,  $\text{State } \hat{Y}'_i = \frac{1}{2} \sum_{m=2,4} \text{State } \hat{Y}'_{ism}$ , where  $\text{State } \hat{Y}'_{ism}$  is the state sample estimate of the s-th stratum for the sample sector.

Thus, the estimator for any characteristic of the unit **in the sample sector** of the i<sup>th</sup> state is based on **the state sample** is:

$$\text{State } \hat{Y}'_i = \sum_s \text{State } \hat{Y}'_{is} \quad \dots\dots\dots (4.2)$$

Using  ${}^c \hat{Y}''_i$  as the corresponding estimate for that characteristic of the unit **for the census sector** of the i-th state, then the estimate for that characteristic of the unit for the i-th state **as a whole** based on the **state sample** is given by:

$$\text{State } \hat{Y}_i = \text{State } \hat{Y}'_i + {}^c \hat{Y}''_i \quad \dots\dots\dots (5)$$

(c) **Formulae for estimation of aggregates for a state based on pooled sample:**

Estimation formula for any characteristic of the unit **for the sample sector** of the i-th state **based on pooled sample (i.e., central and state combined)** will be as follows:

Let sub-sample estimate of a characteristic Y for m-th sub-sample in s-th stratum in i-th State is  ${}^s \hat{Y}'_{ism}$ .

Then

$${}^s \hat{Y}'_{ism} = \frac{E_{is}}{e_{ism}} \sum_{k=1}^{e_{ism}} y_{ismk}, \quad m=1,2,3,4,\dots\dots\dots (6.1)$$

<sup>1</sup> The State sample comprises of two sub-samples, viz., sub-samples 2 and 4 and census sector is covered in central sample. Hence, the state sample has only the sample sector.

The stratum level estimate for the pooled sample will be the simple average of the sub-sample estimate of Y in that stratum. Mathematically, if  $\hat{Y}'_{is}$  be the stratum-level estimate for s-th stratum for i-th State, then  $^{Pooled} \hat{Y}'_{is} = \frac{1}{4} \sum_{m=1}^4 {}^S \hat{Y}'_{ism}$ . In some cases, in a particular stratum one or more sub-samples may be void. Then stratum-level estimate will be generated from the simple average of the non-void sub-samples in that stratum. Thus, general form of stratum-level estimate may be  $^{Pooled} \hat{Y}'_{is} = \frac{1}{t} \sum_{m=1}^t {}^S \hat{Y}'_{ism}$ , where t ( $\leq 4$ ) is the number of non-void sub-sample available with the stratum s.

Thus, the estimator for any characteristic Y of the unit **the sample sector** of the i<sup>th</sup> state based on **pooled sample** is:

$$^{Pooled} \hat{Y}'_i = \sum_s {}^{Pooled} \hat{Y}'_{is} \dots\dots\dots(6.2)$$

Using  ${}^c \hat{Y}''_i$  as the corresponding estimate for that characteristic of the unit **for the census sector** of the i-th state, then the estimate for that characteristic of the enterprise for the i-th state **as a whole** based on the pooled sample is given by:

$$^{Pooled} \hat{Y}_i = {}^{Pooled} \hat{Y}'_i + {}^c \hat{Y}''_i \dots\dots\dots (7)$$

The above equations are given for generating the estimates for the State. However, similar treatment may be given or same equations may be used in generating the estimates at district level.

**2. Estimates of Ratios:**

Let  $\hat{Y}$  and  $\hat{X}$  be the overall estimate of the aggregates Y and X for two characteristics y and x, respectively at the State/ UT/ all-India level.

Then the combined ratio estimate ( $\hat{R}$ ) of the ratio ( $R = \frac{Y}{X}$ ) will be obtained as

$$\hat{R} = \frac{\hat{Y}}{\hat{X}}.$$

**3. Estimates of Error for Aggregate  $\hat{Y}$ :** The variance is to be obtained for the sample sector units only. The estimated variances of the estimates at state level will be as follows:

$$V\hat{a}r(\hat{Y}_i) = \sum_s V\hat{a}r(\hat{Y}'_{is}) \dots\dots\dots (8)$$

The sampling variance based on central Samples is:

$$V\hat{a}r(\hat{Y}_i) = \sum_s \{(\hat{Y}'_{is1} - \hat{Y}'_{is3}) / 2\}^2 \dots\dots\dots (9.1)$$

The sampling variance based on state Samples is:

$$V\hat{a}r(\hat{Y}_i) = \sum_s \{(\hat{Y}_{is2} - \hat{Y}_{is4}) / 2\}^2 \dots\dots\dots (9.2)$$

In case only one sub-sample is available in a stratum out of two sub-samples 1 and 3 in central sample, the estimate of variance of central sample estimate in that stratum needs to be adjusted. The adjustment may be made by considering all the surveyed units in the non-void sub-sample as SRSWOR samples provided number of surveyed units in the sub-sample is greater than one. Similar treatment may be given in case only one sub-sample is available in a stratum out of two sub-samples 2 and 4 in state sample as well as in a stratum out of four sub-samples in pooled data.

For generating estimates of variance for the pooled sample is:

$$V\hat{a}r(\hat{Y}_i) = \frac{1}{t(t-1)} \sum_s \sum_{m=1}^t (\hat{Y}_{ism} - \hat{Y}_{is})^2, \dots\dots\dots (9.3)$$

where  $\hat{Y}_{is} = \frac{1}{t} \sum_{m=1}^t \hat{Y}_{ism}$  and t is the number of non-void sub-samples in s-th stratum. Note that equations (9.1) and (9.2) are special cases of equation (9.3) when t=2.

For all-India, the estimated variances of the estimates of different types will be as follows:

$$V\hat{a}r(\hat{Y}) = \sum_i V\hat{a}r(\hat{Y}_i) \dots\dots\dots (10)$$

#### 4. For ratio $\hat{R}$ :

The ratio estimators are biased estimators. Thus, instead of variance, we'll try to estimate Mean Square Error (MSE). The general formula of estimate of MSE of  $\hat{R}$  is

$$M\hat{S}E(\hat{R}) = \frac{1}{\hat{X}^2} \left[ \hat{V}(\hat{Y}) - 2\hat{R}Co\hat{v}(\hat{X}, \hat{Y}) + \hat{R}^2\hat{V}(\hat{X}) \right] \dots\dots\dots (11)$$

Now, the MSE of  $\hat{R}$  at all-India level based on central sample (i.e. sub-samples 1 and 3) is,

$$M\hat{S}E(\hat{R}) = \frac{1}{2} \times \frac{1}{\text{Central } \hat{X}^2} \sum_s \left[ \sum_{m=1,3} (\hat{Y}_{sm} - {}^c\hat{Y}_s)^2 - 2\hat{R} \sum_{m=1,3} (\hat{Y}_{sm} - {}^c\hat{Y}_s)(\hat{X}_{sm} - {}^c\hat{X}_s) + \hat{R}^2 \sum_{m=1,3} (\hat{X}_{sm} - {}^c\hat{X}_s)^2 \right] \dots (11.1)$$

where  ${}^c\hat{Y}_s = \frac{1}{2} \sum_{m=1,3} \hat{Y}_{sm}$ ,  ${}^c\hat{X}_s = \frac{1}{2} \sum_{m=1,3} \hat{X}_{sm}$ ,  $\hat{R} = \text{Central } \hat{Y} / \text{Central } \hat{X}$ , and  $\hat{Y}_{sm}$  and  $\hat{X}_{sm}$  are estimates of characteristics x and y based on m-th sub-sample of s-th stratum from the sample sector of central sample, and  $\text{Central } \hat{X}$  and  $\text{Central } \hat{Y}$  will be obtained using eq. (3) for the characteristics x and y respectively.

For  $\hat{R}$  at state level (i.e., for i-th state, say  $\hat{R}_i$ ) based on sub-samples 1 and 3 of central sample,

$$M\hat{S}E(\hat{R}_i) = \frac{1}{2} \times \frac{1}{\text{Central } \hat{X}_i^2} \sum_s \left[ \sum_{m=1,3} (\hat{Y}_{ism} - {}^c\hat{Y}_{is})^2 - 2\hat{R}_i \sum_{m=1,3} (\hat{Y}_{ism} - {}^c\hat{Y}_{is})(\hat{X}_{ism} - {}^c\hat{X}_{is}) + \hat{R}_i^2 \sum_{m=1,3} (\hat{X}_{ism} - {}^c\hat{X}_{is})^2 \right] \dots (11.2)$$

where  ${}^c\hat{Y}_{is} = \frac{1}{2} \sum_{m=1,3} \hat{Y}_{ism}$ ,  ${}^c\hat{X}_{is} = \frac{1}{2} \sum_{m=1,3} \hat{X}_{ism}$ ,  $\hat{R}_i = \text{Central } \hat{Y}_i / \text{Central } \hat{X}_i$ , and  $\hat{Y}_{ism}$  and  $\hat{X}_{ism}$  are estimates of characteristics x and y based on m-th sub-sample of s-th stratum in i-th State from the sample sector of central sample, and  $\text{Central } \hat{X}_i$  and  $\text{Central } \hat{Y}_i$  will be obtained using eq. (2) for i-th state for the characteristics x and y respectively.

For  $\hat{R}$  at state level (say  $\hat{R}_i$ ) from state sample (i.e. based on sub-samples 2 and 4),

$$M\hat{S}E(\hat{R}_i) = \frac{1}{2} \times \frac{1}{State \hat{X}_i^2} \sum_s \left[ \sum_{m=2,4} (\hat{Y}_{ism} - {}^s\hat{Y}_{is})^2 - 2 {}^s\hat{R}_i \sum_{m=2,4} (\hat{Y}_{ism} - {}^s\hat{Y}_{is})(\hat{X}_{ism} - {}^s\hat{X}_{is}) + {}^s\hat{R}_i^2 \sum_{m=2,4} (\hat{X}_{ism} - {}^s\hat{X}_{is})^2 \right] \dots (12)$$

where  ${}^s\hat{Y}_{is} = \frac{1}{2} \sum_{m=2,4} \hat{Y}_{ism}$ ,  ${}^s\hat{X}_{is} = \frac{1}{2} \sum_{m=2,4} \hat{X}_{ism}$ ,  ${}^s\hat{R}_i = \frac{State \hat{Y}_i}{State \hat{X}_i} ; \hat{Y}_{ism}$  and  $\hat{X}_{ism}$  are estimates of characteristics x and y based on m-th sub-sample (sub-sample 2 and 4) of s-th stratum in i-th State from the state sample, and  ${}^{State} \hat{X}_i$  and  ${}^{State} \hat{Y}_i$  will be obtained using eq. (5) for i-th state for the characteristics x and y respectively.

For  $\hat{R}$  at all-India based on pooled sample (i.e. sub-samples 1, 2, 3 and 4) is,

$$M\hat{S}E(\hat{R}) = \frac{1}{12} \times \frac{1}{\hat{X}^2} \sum_s \left[ \sum_{m=1}^4 (\hat{Y}_{sm} - \hat{Y}_s)^2 - 2\hat{R} \sum_{m=1}^4 (\hat{Y}_{sm} - \hat{Y}_s)(\hat{X}_{sm} - \hat{X}_s) + \hat{R}^2 \sum_{m=1}^4 (\hat{X}_{sm} - \hat{X}_s)^2 \right] \dots (13)$$

where  $\hat{Y}_{sm}$  and  $\hat{X}_{sm}$  are estimates of characteristics x and y based on all sub-samples 1, 2, 3 and 4 of s-th stratum,  $\hat{Y}_s = \frac{1}{4} \sum_{m=1}^4 \hat{Y}_{sm}$ ,  $\hat{X}_s = \frac{1}{4} \sum_{m=1}^4 \hat{X}_{sm}$  and  $\hat{R} = \hat{Y} / \hat{X}$ . Here,  $\hat{Y}$ ,  $\hat{X}$  and  $\hat{R}$  are pooled all-India estimate of the characteristics Y, X and R (i.e., ratio Y/X) respectively. In case, pooling at any State level is attempted, the corresponding pooled estimate of characteristics y, x and R may be used for that State using eq. (7). In short, formula for MSE ( $\hat{R}_i$ ) based on pooled sample is :

$$M\hat{S}E(\hat{R}_i) = \frac{1}{12} \times \frac{1}{Pooled \hat{X}_i^2} \sum_s \left[ \sum_{m=1}^4 (\hat{Y}_{ism} - \hat{Y}_{is})^2 - 2\hat{R}_i \sum_{m=1}^4 (\hat{Y}_{ism} - \hat{Y}_{is})(\hat{X}_{ism} - \hat{X}_{is}) + \hat{R}_i^2 \sum_{m=1}^4 (\hat{X}_{ism} - \hat{X}_{is})^2 \right] \dots (13.1)$$

where  $\hat{Y}_{ism}$  and  $\hat{X}_{ism}$  are estimates of characteristics x and y based on all sub-samples 1, 2, 3 and 4 of s-th stratum for the i-th state,  $\hat{Y}_{is} = \frac{1}{4} \sum_{m=1}^4 \hat{Y}_{ism}$ ,  $\hat{X}_{is} = \frac{1}{4} \sum_{m=1}^4 \hat{X}_{ism}$  and  $\hat{R}_i = \frac{Pooled \hat{Y}_i}{Pooled \hat{X}_i}$ .

Please note that, in case one or more sub-sample is void in a stratum, the estimate MSE of  $\hat{R}$  will be estimated using the equations (13) based on only non-void sub-samples.

**5. Estimates of RSE:**

$$R\hat{S}E(\hat{Y}) = \frac{\sqrt{Var(\hat{Y})}}{\hat{Y}} \times 100 \dots (14)$$

$$R\hat{S}E(\hat{R}) = \frac{\sqrt{M\hat{S}E(\hat{R})}}{\hat{R}} \times 100 \dots (15)$$

**6. Multipliers for enterprises:**

The formulae for multipliers for a stratum are given below:

formula for sub-sample wise multiplier	formula for combined sample multiplier
$\frac{E_{is}}{e_{ism}}, m = 1, 2, 3 \text{ or } 4.$	$\frac{E_{is}}{e_{is}}, e_{is} = \sum_{m=1}^4 e_{ism}$



## 7. Treatment for surveyed cases and casualty cases:

7.1 *Casualty cases:* The casualty case may occur in cases where the unit is existing but non-response due to closure and owner/occupier is not traceable (code 5), non-response due to production not yet started or accounting year not closed during the year (code 7) or non-response due to other reasons [incl. relevant records are with court/Income tax or recalcitrant/refuse to submit the return department, etc, or factory under prosecution in respect of earlier ASI] (code 8). Thus, the units with survey codes 5, 7 and 8 as per Item 12, Block A are treated as casualties.

7.2 *Imputation of data from past survey for casualty units:* In case any units in the census sector becomes casualty, information in respect of all the characteristics may be borrowed from the previous year, if available, for the census sector units belonging to that post-survey stratum of 'State × District × Sector × 3-Digit of NIC'. This is also followed in case of units pertaining to sample sector which are casualty but information on various characteristics for previous year of those units is available. All such units, for which previous year's information is available, are treated as if 'open' and status code '1' is given against these units.

7.3 While counting the number of units surveyed ( $e_{ism}$ ) in the m-th sub-sample of a stratum, all the units with survey codes 1 to 4 in Item 12, Block A will be considered excluding the casualty cases (i.e., those casualty cases where even previous year's information is not available).

## 8. Treatment in cases of void strata

8.1 A stratum may be void because of the casualty of all the units belonging to the stratum. This may occur in one sub-sample or more sub-samples. If it happens to only one sub-sample, then estimate for the stratum with one void sub-sample may be based on a single available sub-sample. Since the estimate of the sample sector within a stratum is the simple average of the two sub-samples (assuming samples are selected in the form of two sub-samples), by considering only one sub-sample, the stratum level estimate will be same as the single available sub-sample estimate. This situation where at least one sub-samples is available, we will not treat this stratum as 'void'. The situation where none of the sub-sample is available in a stratum, we will treat that stratum as 'void'. However, the various cases of void sub-samples are discussed below:

8.2 When a stratum is void i.e., none of the sub-samples 1 and 3 is available, then in order to generate estimate pertaining to sample sector based on central sample, the 'void' stratum may be merged with the nearest stratum looking into the description of the 3-digit NIC activity within the district, or else it could be merged with the 3-digit NIC activity 'others' within that 3-digit NIC Group in the district of the respective State. This will ensure the generation of district level estimates within a State.

8.3 The treatment will be similar if the stratum is void in both the sub-samples 2 and 4 to generate estimates from the state sample. In this case merging of stratum may be required in generating state sample estimates. If only one sub-sample (out of sub-sample 2 and 4) is void, then estimate for that stratum may be generated on the basis of single sub-sample as is mentioned in earlier paragraph 8.1. It may be possible that in a particular stratum, sub-samples 1 and 3 are void but sub-samples 2 and 4 are not void or conversely sub-samples 1 and 3 are not void but sub-samples 2 and 4 are void. In the later case merging of stratum is required in generating state sample estimate while merging is not required in generating estimates from central sample. In such cases for generating pooled estimate, merging is also not required. The stratum merging in generating pooled estimate is required only when all the four sub-samples in a stratum are void. The same merging principle, which is mentioned in earlier paragraph 8.2, is to be followed in such cases.

**CONFIDENTIAL**

Government of India  
Ministry of Statistics and Programme Implementation  
Return under Collection of Statistics Act, 2008 as amended in 2017 and rules framed there under in 2011  
Annual Survey of Industries 2018-2019 (Part –I)  
(Please read the instructions before filling the return)

<b>Block A: Identification particulars (for official use)</b>					
1. Schedule Despatch (DSL) No.					
2. PSL No.					
3. Scheme code ( <i>Census-1, Sample-2</i> )					
4. Industry code as per frame (4-digit level of NIC-2008)					
5. Industry code as per return (5-digit level of NIC-2008)					
6. Description of Industry:					
7. State Code					
8. District Code					
9. Sector ( <i>Rural-1, Urban-2</i> )					
10. RO /SRO code					
11. No. of Units					
12. Status of Unit ( <i>Code</i> )					

<b>Block B: Particulars of the factory (to be filled by owner of the factory)</b>					
1. Name and address of the Industrial undertaking:		1.1 Vill./Town:			
		1.2 District name:			
		1.3 State name:			
		1.4 PIN Code			
2. Type of organisation ( <i>code</i> )					
3. Corporate Identification Number (CIN)					
4. Whether the unit has ISO Certification, 14000 Series ( <i>yes-1, no-2</i> )					
5. Year of initial production					
6. Accounting year (..... to .....				to	
7. Number of months of operation					
8. Whether the share capital of the company includes share of foreign entities ( <i>yes-1, no-2</i> )					
9. Any R&D unit in your factory? ( <i>yes &amp; registered with DST/DBT-1, yes &amp; registered with others-2, no-3</i> )					
10. Details of contact person		i) Name & designation:			
		ii) Tele (with STD code)			
		iii) FAX no.			
		iv) E-mail			

**DECLARATION**

I hereby declare that information furnished in this return is correct and complete to the best of my knowledge and belief.

Date :

Place :

(Name and Signature of owner with stamp)

DSL No       PSL No

<b>Block C: FIXED ASSETS</b>												
Sl. No.	Type of Assets	Gross value (Rs.)					Depreciation (Rs.)				Net value (Rs.)	
		Opening as on ----	Addition during the year		Deduction & adjustment during the year	Closing as on ---- (cols. 3+4+5-6)	Up to year beginning	Provi- ded during the year	Adjustment for sold/ discarded during the year	Up to year end  (cols. 8+9 -10)	Opening as on	Closing as on
		Due to revaluation	Actual additions	----- (cols. 3-8)							----- (cols. 7-11)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	Land											
2.	Building											
3.	Plant & Machinery											
4.	Transport equipment											
5.	Computer equipment including software											
6.	Pollution control equipment/ Environment improvement equipment											
7.	Others											
8.	<b>Sub-total (items 2 to 7)</b>											
9.	Capital work in progress											
10.	<b>Total (items 1+8+9)</b>											

DSL No       PSL No     

<b>Block D: WORKING CAPITAL AND LOANS</b>			
Sl. No.	Items	Opening (Rs.)	Closing (Rs.)
(1)	(2)	(3)	(4)
1.	Raw Materials & Components and Packing materials		
2.	Fuels & Lubricants		
3.	Spares, Stores & others		
4.	<b>Sub-total (items 1 to 3)</b>		
5.	Semi-finished goods/work in progress		
6.	Finished goods		
7.	<b>Total inventory ( items 4 to 6)</b>		
8.	Cash in Hand & at Bank		
9.	Sundry Debtors		
10.	Other current assets		
11.	<b>Total current assets (items 7 to 10)</b>		
12.	Sundry Creditors		
13.	Over draft, cash credit, other short term loan from banks & other financial institutions		
14.	Other current liabilities		
15.	<b>Total current liabilities (items 12 to 14)</b>		
16.	<b>Working Capital (item 11-item 15)*</b>		
17.	Outstanding loans (excluding interest but including deposits)**		
<i>Note:</i>			
* Give reasons in the footnote for negative values and abnormal verification in opening and closing values.			
** If outstanding loans include interest, a footnote may be given			

DSL No       PSL No      

<b>Block E: EMPLOYMENT AND LABOUR COST</b>							
Sl. No.	Category of staff	Man-days worked			Average number of persons worked	No. of mandays paid for	Wages/ salaries (in Rs.)
		Manu- facturing	Non Manufacturing	Total			
1	2	3	4	5	6	7	8
<b>Part A: Details for each category of staff</b>							
1.	Male workers employed directly						
2.	Female workers employed directly						
3.	<b>Sub-total (items 1 + 2)</b>						
4.	Workers employed through contractors						
5.	<b>Total workers (items 3 + 4)</b>						
6.	Supervisory & managerial staff						
7.	Other employees						
8.	Unpaid family members/ proprietor/ coop. members						
9.	<b>Total employees (items 5+6+7+8)</b>						
<b>Part B: Some details for all categories of staff combined</b>							
10.	Bonus (in Rs.)						
11.	Contribution to provident & other funds (in Rs.)						
12.	Workmen & staff welfare expenses (in Rs.)						
13.	Number of working days	(i) Manufacturing days					
		(ii) Non-manufacturing days					
		<b>(iii) Total ( i+ ii)</b>					
14.	<b>Total cost of production (in Rs.)</b> [entry in col. 8 of item 9, 10, 11, and 12, block E + entry in col. 3 of item 1, 2(i), 2(ii), 3, 4, 5, 6, 7, 8, 9 & 10, block F + entry in col. 6 of item 23 of block H + entry in col. 6 of item 7, block I]						

DSL No       PSL No

<b>Block F : OTHER EXPENSES</b>		
Sl. No.	Items	Expenditure (in Rs.)
(1)	(2)	(3)
<b>O T H E R  I N P U T</b>	1.	Work done by others on materials supplied by the industrial undertaking
	2.	Repair & maintenance of
		(i) Buildings and other construction
		(ii) Other fixed assets
	3.	Operating expenses
	4.	Expenses on raw materials and other components for own construction
	5.	Insurance charges
	6.	Rent paid for plant & machinery and other fixed assets
	7.	Expenses on Research & Development (R&D)
	8.	Rent paid for buildings
	9.	Rent paid for land on lease or royalties on mines, quarries and similar assets
10.	Interest paid	
11.	Purchase value of goods sold in the same condition as purchased	

<b>Block G: OTHER OUTPUT/RECEIPTS</b>		
Sl. No.	Items	Receipts (in Rs.)
(1)	(2)	(3)
<b>O T H E R  O U T P U T</b>	1.	Receipts from manufacturing services (including work done for others on materials supplied by them and sale value of waste left by the party)
	2.	Receipts from non-manufacturing services (including non-industrial services)
	3.	Value of electricity generated and sold
	4.	Value of own construction
	5.	Net balance of goods sold in the same condition as purchased. (item 11 of block G <i>minus</i> item 11 of block F)
	6.	Rent received for plant & machinery and other fixed assets
	7.	Variation in stock of semi-finished goods (col. 4 <i>minus</i> col. 3 against item 5 in block D)
	8.	Rent received for buildings
	9.	Rent received for land on lease or royalties on mines, quarries and similar assets
	10.	Interest received
	11.	Sale value of goods sold in the same condition as purchased
	12.	Other production subsidies

DSL No       PSL No      

<b>Block H: Indigenous input items consumed (if needed, additional sheets may be used for recording input items with serial nos. starting from 25)</b>						
Sl. No.	Item description	Item code (NPC-MS)	Unit of quantity	Quantity consumed	Purchase value (in Rs.)	Rate per unit (in Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Major ten basic items (indigenous)					
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.	Other basic items (indigenous)*	9920100				
12.	<b>Total basic items (items 1 to 11)</b>	<b>9990100</b>				
13.	Non-basic chemicals – all kinds	9920300				
14.	Packing items	9990800				
15.	Electricity own generated	9990400	KWH			
16.	Electricity purchased & consumed	9990500	KWH			
17.	Petrol, diesel, oil, lubricants consumed	9990600				
18.	Coal consumed	9990700	Tonne			
19.	Gas consumed	9990900	KG			
20.	Other fuel consumed	9920400				
21.	Consumable store	9922000				
22.	Total non-basic items (items 13 to 21)	9992000				
23.	<b>Total inputs (items 12+ 22)</b>	<b>9993000</b>				
24.	Any additional requirement of electricity (unmet demand)	<b>9999999</b>	KWH			
* Full description of items not in NPC-MS 2011 (Revised):						

DSL No       PSL No

<b>Block I: Imported input items consumed - directly only (if needed, additional sheets may be used for recording input items with serial nos. starting from 8)</b>						
Sl. No.	Item description (Major five imported items)	Item code (NPC-MS)	Unit of quantity	Quantity consumed	Purchase value (in Rs.)	Rate per unit (in Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.						
2.						
3.						
4.						
5.						
6.	Other imported items	9922100				
7.	<b>Total imports (consumed) (items 1 to 6)</b>	<b>9994000</b>				

DSL No       PSL No

<b>Block J: Products and by-products manufactured by the unit (if needed, additional sheets may be used for recording output items with serial nos. starting from 14)</b>												
Sl. No.	Products/By-products description (First ten major items as per value - no brand name)	Item code (NPC-MS)	Unit of quantity	Quantity manufactured	Quantity sold	Gross sale value (Rs)	Distributive expenses (Rs.)				Per unit net sale value (Rs. 0.00) (col. 7-[col. 8+col. 9+col.10+col.11] ÷ col. 6)	Ex-factory value of quantity manufactured (Rs.) (col.12× col.5)
							Excise duty	Sales tax/ VAT	Others	Subsidy (-)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.												
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
11.	Other products/ by-products*	9921100										
12.	<b>Total ( items 1 to 11)</b>	<b>9995000</b>										
13.	Share (%) of products/by-products directly exported											

\* Full description of items not in NPC-MS 2011 (Revised):



DSL No       PSL No

<b>Block K: Information and Communication technology (ICT) usage</b>		
Sl. No.	ICT indicator	yes-1, no-2
1.	Did the factory use computer/s during FY 2018-19?	
2.	Did the factory use the internet during FY 2018-19?	
3.	Did the factory have a website as on the date of survey?	
4.	Did the factory receive orders via the internet during FY 2018-19?	
5.	Did the factory place orders for business purpose via the internet during FY 2018-19?	
6.	Did the factory connect to the internet either by a. Narrowband or b. Fixed broadband or c. Mobile broadband during FY 2018-19?	
7.	Does the factory have a local area network (LAN) as on the date of survey?	

<b>Block L: Energy Conservation (EC) measures</b>		
Sl. No.	EC indicator	yes-1, no-2
<b>Have any measures been taken during last financial year with regard to:</b>		
1.	Electrical saving?	
2.	Coal saving?	
3.	Oil saving?	
4.	Gas saving?	

**FOR OFFICIAL USE ONLY**

<b>Block M: Particulars of field operations</b>					
1.	Name of Superintending Officer		5.	Date of receipt from factory	
2.	Signature of Superintending Officer		6.	Date of verification/compilation	
3.	Name & Designation of Scrutinising Officer		7.	Date(s) of scrutiny	
4.	Signature of Scrutinising Officer		8.	Date of despatch	

<b>Block N: Comments of Superintending Officer/Scrutinising Officer</b>
<i>Note: Reasons for negative working capital and for any abnormal values or entries (high or low) in respect to important characteristics (Such as GVA, working capital, wage rate, number of workers, distributive expenses, depreciation etc.) should be given invariably. For instance the reasons for high GVA could be increased demand/production, profit, govt. subsidy; or for low GVA, the reasons could be decreased demand/production, capacity under-utilization, high input cost etc. similarly reasons for any abnormal values of certain important ratios eg. Ratio of output to input, ratio of depreciation/distributive expenses to output etc should be given. Please refer to detailed instructions also for further guidance.</i>

**Annual Survey of Industries 2018-2019****Part A**

Report of scrutiny on Part-I of the return

State (code) \_\_\_\_\_ Distt. (code) \_\_\_\_\_

DSL No./PSL No. \_\_\_\_\_

Ind. code (5-digit NIC 2008) as per return \_\_\_\_\_

Scheme Code \_\_\_\_\_

Sl. No.	Bl. no.	Item	Unit	Average rate per unit*	If high or low, reasons to be furnished by	
1	H	Input items (Indigenous) Major Ten basic items consumed	X	X	Superintending Officer	Scrutinising Officer
		1)				
		2)				
		3)				
		4)				
		5)				
		6)				
		7)				
		8)				
		9)				
		10)				
		11) Electricity purchased				
		12) Coal				
2	I	Directly imported items consumed (major five items)				
		1)				
		2)				
		3)				
		4)				
		5)				

\*Average value per unit in nearest whole rupee is to be reported.

3. Percentage yield of product from the basic materials consumed (in case the quantity are common or directly convertible in whole number)

4	Item	Current year (2018-19)	Previous year (2017-18)	Reasons for significant variation, if any.
	1) Average salaries/wages per manday worked (Rs.) (E <sub>5,8</sub> / E <sub>5,5</sub> )			
	2) Total worker (number) (E <sub>5,6</sub> )			
	3) Total employees (number) (E <sub>9,6</sub> )			
	4) Total emoluments (E <sub>9,8</sub> + E <sub>10,8</sub> + E <sub>11,8</sub> + E <sub>12,8</sub> )			
	5) Variation in finished goods (D <sub>6,4</sub> - D <sub>6,3</sub> )			
	6) Working Capital (D <sub>16,4</sub> )			
	7) <b>Total input</b> (F <sub>1,3</sub> +F <sub>2(i),3</sub> +F <sub>2(ii),3</sub> +F <sub>3,3</sub> +F <sub>4,3</sub> +F <sub>6,3</sub> +F <sub>7,3</sub> +F <sub>8,3</sub> +F <sub>11,3</sub> ) (+) (H <sub>23,6</sub> ) (+) (I <sub>7,6</sub> )			
	8) <b>Total output</b> (J <sub>12,7</sub> ) (-) (J <sub>12,8</sub> +J <sub>12,9</sub> +J <sub>12,10</sub> -J <sub>12,11</sub> ) + (D <sub>6,4</sub> - D <sub>6,3</sub> ) + (G <sub>1,3</sub> +G <sub>2,3</sub> +G <sub>3,3</sub> +G <sub>4,3</sub> +G <sub>6,3</sub> +G <sub>7,3</sub> +G <sub>8,3</sub> +G <sub>11,3</sub> +F <sub>7,3</sub> )			
	9) Gross value added (GVA) (Item 8-Item 7 as above)			

Item	Current year (2018-19)	Previous year (2017-18)	Reasons for significant variation, if any.
10) Net value added (Item 9 as above) - Depreciation (C <sub>10,9</sub> )			
11) Net Income (Item 10 as above) (-) (F <sub>9,3</sub> +F <sub>10,3</sub> )			
12) Profit (Item 11 as above) (-) (E <sub>9,8</sub> +E <sub>10,8</sub> +E <sub>11,8</sub> +E <sub>12,8</sub> )			
13) Actual addition to fixed assets (C <sub>10,5</sub> )			
14) <b>GVA (through Ex-factory Value) (J<sub>12,13</sub>) (+)</b> <b>(G<sub>1,3</sub>+G<sub>2,3</sub>+G<sub>3,3</sub>+G<sub>4,3</sub>+G<sub>6,3</sub>+G<sub>7,3</sub>+G<sub>8,3</sub>+G<sub>11,3</sub>+F<sub>7,3</sub>)</b> <b>(-)</b> <b>(F<sub>1,3</sub>+F<sub>2(i),3</sub>+F<sub>2(ii),3</sub>+F<sub>3,3</sub>+F<sub>4,3</sub>+F<sub>6,3</sub>+F<sub>7,3</sub>+F<sub>8,3</sub>+F<sub>11,3</sub>)</b> <b>(- (H<sub>23,6</sub>) (-) (I<sub>7,6</sub>)</b>			

**5. Impose check on the following and give observations against each item**

Sl. No.	Check points	Observations (Yes-1/No-2)
1.	Whether codes and identification particulars have been correctly furnished in Block A?	
2.	Whether information for all the items in Block B have been correctly furnished?	
3.	If the working capital in item 16 of Block D is negative whether reasons furnished in the footnote of Block D of the Return and also in Block N along with code.	
4.	Whether the return has been duly signed by owner with stamp?	
5.	If wide variation is noticed between Opening & Closing value of Working Capital, whether reasons furnished in the footnote of Block D and also in Block N along with code	
6.	Whether special check has been made in case of negative GVA?	
7.	Whether basic entries have been thoroughly rechecked where output/input ratio is less than 0.5	
8.	Whether ratio of Distributive expenses to gross sales is reasonable? If no, whether the relevant entries have been rechecked particularly where this ratio exceeds 20%.	
9.	If the total Bonus is more than 20% of total wages/salaries whether suitable remarks given in the Return?	
10.	If sale value of goods sold in same condition as purchased (Item-11 of Block G) is less than the purchase value of the same (Item-11 of Block F), whether reasons furnished in the return ?	
11.	Whether Balance Sheet, Profit & Loss Account and Working Sheet are attached with the O/C of the Return ?	
12.	Whether, the ex-factory value of output in column-13 of Block J have been calculated correctly for each of the 10 major items of product and by-product and also for item 11 ?	
13.	Whether the entries in Blocks H & I are reported independently ?	

Signature of the Superintending Officer

( )  
Name of the Superintending Officer

<b>PART-B</b> <b>(To be filled in by Scrutinizing officer)</b>		
Impose check on the following and give observations against each item		
<b>Sl. No.</b>	<b>Check points</b>	<b>Observations (Yes-1/No-2)</b>
1.	Examine the Industry Code with reference to Production/Process and state whether Industry Code is reported in 5 digit NIC 2008 against item 5 of Block A.	
2.	Whether valid new State Code has been entered against item 7 of Block 'A'?	
3.	Whether Schedule Despatch no. has been correctly filled in against item 1 of Block A ?	
4.	State whether proper remarks in Block N for all important parameters such as GVA, working capital, wage rate, number of workers, distributive expenses, depreciation etc. are given.	
5.	Whether average salaries/wages per manday worked (worker) has been checked calculated correctly and are within the reasonable limits?	
6.	Whether special check has been made in case of negative GVA?	
7.	Whether basic entries have been rechecked where output/Input ratio is less than 0.5	
8.	Whether ratio of distributive expenses to gross sales is reasonable? If no, whether the relevant entries have been rechecked particularly where this ratio exceeds 20%.	
9.	If total bonus exceeds 20% of total salaries & wages, whether suitable remarks furnished ?	
10.	Whether yield ratio of products from basic materials consumed (in case the units of quantity are common or directly convertible) are correctly calculated and are within prescribed limits ?	
11.	Whether data reported in the return have been checked with Balance Sheet and Profit & Loss Account ?	

Signature of Scrutinizing officer

( )  
Name of Scrutinizing officer

CONFIDENTIAL

**ANNUAL SURVEY OF INDUSTRIES 2018-2019**  
**PART II MANDAYS WORKED, ABSENTEEISM & LABOUR TURNOVER**

**Block 1. Identification and other Particulars**

1. Schedule Despatch No.				10. Type of Organisation (code)		16. Signature	
2. PSL No.							
3. Scheme Code (census - 1, sample - 2)				11. Company Identification Number (CIN)		17. Name of Scrutinizing Officer	
4. Industry code as per frame (4-digit level of NIC - 08)				12. Accounting Year		18. Personnel code	
5. Industry code as per return (5- digit level of NIC - 08)							
6. Description of Industry				13. Name of Superintending Officer		19. Head Quarter	
7. State code				14. Personnel code		20. Signature.	
8. District code				15. Head Quarter			
9. RO/SRO code							
Name and address of the Industrial Undertaking							
City/ Town/ Village		Tehsil/ Taluk		District		State	

**Block 2-** Mandays worked, absenteeism, labour turnover for regular workers directly employed for each month of the year.

Sl no.	Month	Scheduled Working days for Workers	No of Mandays Worked	No of Mandays lost due to absence	No of Workers in employment on		Accessions during the Month	Separations during the month due to	
					First day of month	Last day of month		Death or retirement	Other causes
0	1	2	3	4	5	6	7	8	9
1.	Apr, 2018								
2.	May, 2018								
3.	June, 2018								
4.	July, 2018								
5.	Aug, 2018								
6.	Sep, 2018								
7.	Oct, 2018								
8.	Nov, 2018								
9.	Dec, 2018								
10.	Jan, 2019								
11.	Feb, 2019								
12.	Mar, 2019								

## CONCEPTS AND DEFINITIONS

Important concepts and definitions used in ASI are explained below.

1. A number of accounting, economic and other terms related to the factories are used in conduct of Annual Survey of Industries. For proper assessment and interpretation of ASI data, those are given below.
2. **Accounting Year:** For the purpose of ASI, the accounting year is the period on which the factory closes its books of account. With the enactment of Income Tax Act, by and large, the accounting year of all factories is from April to March.
3. **Reference Period:** It corresponds to the financial year. For example, for ASI 2018-2019 the reference period is the financial year commencing from 1<sup>st</sup> April 2018 and ending on 31<sup>st</sup> March 2019 or the accounting year of the factory ending on any date between 01.04.2018 to 31.03.2019.
4. **Survey Period:** Survey period is a period during which work of any Annual Survey of Industries is undertaken. The survey period for ASI 2018-2019 is from November, 2019 to November, 2020.
5. **Factory (as per the Factory Act 1948):** Factory is one, which is registered under Sections 2m(i) and 2m(ii) of the Factories Act, 1948. The Sections 2m(i) and 2m(ii) refer to any premises including the precinct thereof (i) wherein ten or more workers are working, or were working on any day of the preceding twelve months, and in any part of which a manufacturing process is being carried on with the aid of power, or is ordinarily so carried on, or (ii) wherein twenty or more workers are working, or were working on any day of the preceding twelve months and in any part of which a manufacturing process is being carried on without the aid of power, or is ordinarily so carried on. Closed factories with fixed assets on site are also considered as registered factories till they are de-registered and removed from the live-register maintained by the Chief Inspector of Factories (CIF) in the State.
6. **Manufacturing Process:** This is as per Section 2(k) of the Factories Act, 1948.

*'Any process' for:*

- (i) *making, altering, ornamenting, finishing, packing, oiling, washing, cleaning, breaking up, demolishing or otherwise treating or adapting any article or substance with a view to its use, sale, transport, delivery or disposal; or,*
- (ii) *pumping oil, water or sewage ; or,*
- (iii) *generating , transforming or transmitting power; or,*
- (iv) *composing types for printing by letter press, lithography, photogravure or other similar process or book binding; or,*
- (v) *constructing, reconstructing, repairing, refitting, finishing or breaking up ships or vessels; or,*
- (vi) *preserving or storing any article in cold storage.*

**7. Gross Value of Plant and Machinery:** Gross value of plant and machinery represents the total original (un-depreciated) value of installed plant and machinery as at the end of the accounting year. It includes the book value of own constructed plant and machinery, if installed, and the approximate value of rented-in plant and machinery as at the time of renting in but excludes the value of rented-out plant and machinery. Total value of all the plant and machinery acquired on hire-purchase basis is also included. Thus it represents the gross value of plant and machinery engaged in production process.

**8. Fixed Capital:** Fixed Capital represents the depreciated value of fixed assets owned by the factory as on the closing day of the accounting year. Fixed assets are those, which have normal productive life of more than one year. Fixed capital covers all type of assets, new or used or own constructed, deployed for productions, transportation, living or recreational facilities, hospitals, schools, etc. for factory personnel. It would include land, building, plant and machinery, transport equipment etc. It includes the fixed assets of the head office allocable to the factory and also the full value of assets taken on hire-purchase basis (Whether fully paid or not) excluding interest element. It excludes intangible assets and assets solely used for post-manufacturing activities such as, sale, storage, distribution, etc.

**9. Depreciation:** Depreciation is consumption of fixed capital by the factory due to wear and tear and obsolescence during the accounting year and is taken as provided by the factory owner, or if not provided by the factory this is estimated on the basis of cost of installation and working life of the fixed assets.

**10. Finished Goods:** Finished Goods are those, which are manufactured by the factory for sale. Finished goods should conform to a prescribed standard.

**11. Physical Working Capital:** This is defined to include all physical inventories owned, held or controlled by the factory as on the closing day of the accounting year such as the materials, fuels and lubricants, stores, etc. that enter into products manufactured by the factory itself or supplied by the factory to others for processing. Physical working capital also includes the value of stock of materials, fuels and stores etc. purchased expressly for re-sale, semi-finished goods and goods-in-process on account of others and goods made by the factory which are ready for sale at the end of the accounting year. However, it does not include the stock of the materials, fuels, stores, etc. supplied by others to the factory for processing. Finished goods processed by others from raw materials supplied by the factory and held by them are included and finished goods processed by the factory from raw materials supplied by others, are excluded.

**12. Working Capital:** Working Capital is the sum total of the physical working capital as already defined above and the cash deposits in hand and at bank, land, the net balance of amounts receivable over amounts payable at the end of the accounting year. Amounts receivable include value of credit items on revenue account, such as sums due to the factory for goods sold, amounts advanced in connection with normal factory work, bills of exchange payable to the factory, payments made in advance such as for fire insurance, telephone charges, rates and taxes, call deposits and security deposits having a normal life of less than one year, etc. It excludes unused overdraft facility, fixed deposits irrespective of duration, advances for acquisition of fixed assets, long-term loans including interest thereon and investment.

**13. Invested Capital:** Invested capital is the total of fixed capital and physical working capital.

**14. Productive Capital:** This is the total of fixed capital and working capital.

15. **Outstanding Loans:** Outstanding loans represent all loans, whether short-term or long-term, whether interest bearing or not, outstanding according to the books of the factory as on the closing day of accounting year.

16. **Contract Worker:** All persons who are not employed directly by an employer but through the third agency, i.e. contractor, are termed as contract workers. Those workers may be employed with or without the knowledge of the principal employer.

17. **Employees:** Employees relate to all persons engaged by the factory whether for wages or not, in work connected directly or indirectly with the manufacturing process and include all administrative, technical and clerical staff as also labour in production of capital assets for factory's own use. This is inclusive of persons holding position of supervision or management or engaged in administrative office, store-keeping section and welfare section, watch and ward staff, sales department as also those engaged in the purchase of raw materials etc. and production of fixed assets for the factory. It also includes all working proprietors and their family members who are actively engaged in the work of the factory even without any pay and the unpaid members of the co-operative societies who work in or for the factory in any direct and productive capacity. Persons in the head office connected with the manufacturing activity of the factory are also included in this item.

18. **Labour Turnover:** Labour turnover measures the extent of change in the working force due to accession and separation during a given period. The term 'accession' was defined as the total number of workers added to employment during the period, whether new or re-employed or transferred from other establishments or units under the same management. Inter-departmental transfers within the same establishment are, however ignored. The term 'separation' implies termination of employment at the instance of worker or employers. It includes termination of services due to death or retirement. As in the case of accession, transfers to other establishments are included but transfers within the same establishment are ignored. Retrenchment as a result of rationalization or modernization or any other cause, is also treated as separation.

19. **Wages:** Wages are defined to include all remuneration capable of being expressed in monetary terms and also payable/paid more or less regularly in each pay period to workers (defined above) as compensation for work done during the accounting year. It **includes:**

(i) Direct wages and salary (i.e. basic wages/salaries, payment of overtime, dearness, compensatory, house rent and other allowances);

(ii) Remuneration for period not worked (i.e. basic wages), salaries and allowances payable for leave period, paid holidays, lay-off payments and compensation for unemployment (if not paid from source other than employers);

(iii) Bonus and ex-gratia payment paid both at regular and less frequent intervals (i.e., incentive bonuses and good attendance bonuses, production bonuses, profit sharing bonuses, festival or yearend bonuses etc.).



It **excludes** layoff payments and compensation for employment except where such payments are for this purpose, i.e., payments not made by the employer. It **excludes** employer's contribution to old age benefits and other social security charges, direct expenditure on maternity benefits and creches and other group benefit in kind and travelling and other expenditure incurred for business purposes and reimbursed by the employer. The wages are expressed in terms of gross value, i.e., before deductions for fines, damages, taxes, provident fund, employee's state insurance contribution etc. Benefits in kind (perquisites) of individual nature are only **included**.

**20. Bonus:** Profit sharing bonus, festival bonus, year-end bonus, and all other bonuses and ex-gratia payments paid at less frequent intervals are covered by this term.

**21. Workmen and Staff Welfare Expenses:** These include expenditure incurred by the employer on the maternity benefits and crèches and other benefits such as supply of food, beverages, tobacco, clothing and group lodging at concessional rates and educational, cultural and recreational facilities and services and grants to trade unions and cooperative stores meant for employees. All group benefits are included.

**22. Emoluments:** These are defined in the same way as wages but paid to all employees plus imputed value of benefits in kind i.e. the net cost to the employers on those goods and services provided to employees free of charge or at markedly reduced cost which are clearly and primarily of benefit to the employees as consumers. It includes profit sharing, festival and other bonuses and ex-gratia payments paid at less frequent intervals (i.e. other than bonus paid more or less regularly for each period). Benefits in kind include supplies or services rendered such as housing, medical, education and recreation facilities. Personal insurance, income tax, house rent allowance, conveyance etc. for payment by the factory also is included in the emoluments.

**23. Supplements to Emoluments:** These include: (i) employer's contribution to old age benefits, i.e., provident fund, pension, gratuity, etc.; (ii) employer's contribution towards other social security charges such as Employees' State Insurance, compensation for work injuries, occupational diseases, maternity benefits, retrenchment and lay-off benefits etc.; and (iii) group benefits like direct expenditure on maternity, crèches, canteen facilities, educational, cultural and recreational facilities and grant to trade unions, co-operative stores etc. meant for employees.

**24. Compensation of Employees:** Compensation of employees is the total of emoluments and supplement to emoluments.

**25. Mandays Worked:** These are obtained by summing up the number of mandays worked by persons working in each shift over all the shifts on all days, i.e. both manufacturing and non-manufacturing days. This figure excludes persons who are paid but remain on leave, strike, etc.

**26. Mandays Paid For:** The number of mandays paid for is arrived at by summing up the number of employees paid for in each shift. This also includes mandays on weekly schedule holidays if paid for and those absences with pay as also mandays lost through lay off/ strike for which compensation was payable.

**27. Working Day:** Working day means the days on which a manufacturing process and/ or repair or maintenance work was carried on.

**28. *Non-working Day:*** Apart from manufacturing day and repair and maintenance days there may be some non-working days. Non working days are those days on which the workers give their attendance but due to non-availability of raw materials power etc. no effective work is done. As the workers are paid for these days such days are also taken into account for the purpose of labour statistics.

**29. *Basic Materials:*** Basic materials are the materials which are important and of key nature to the industry, on which the manufacturing process is based, viz. metal for machine, leather for shoe. Such material is not lost through the process of production but only changes its forms.

**30. *Consumable Stores:*** All such materials which assist the manufacturing process and loose their identity without entering the products are called consumable stores, e.g., cotton waste.

**31. *Fuel Consumed:*** Fuel Consumed represent total purchase value of all items of fuels, lubricants, electricity, water (purchased to make steam) etc. consumed by the factory during the accounting year except those which directly enter into products as materials consumed. It excludes that part of fuels, which is produced and consumed by the factory in manufacture i.e., all intermediate products and also fuels consumed by employees as part of amenities. It includes quantities acquired and consumed from allied concerns, their book value being taken as their purchase value and also the quantities consumed in production of machinery or other capital items for factory's own use.

**32. *Materials Consumed:*** Materials consumed represent the total delivered value of all items of raw materials, components, chemicals, packing materials and stores which actually entered into the production process of the factory during the accounting year. It also includes the cost of all the materials used in the production of fixed assets, including construction work for factory's own use. Components and accessories fitted as purchased with the finished product during the accounting year are also to be included. It excludes intermediate products. Intermediate products in the above context mean all those products which are produced by the factory and consumed for further manufacturing process.

**33. *Total Input:*** This comprises gross value of fuels, materials etc. consumed (as defined above) and also other inputs viz. (a) cost of non-industrial services received from others, (b) cost of materials consumed for repair and maintenance of factory's fixed assets including cost of work done by others to the factory's fixed assets, (c) cost of contract and commission work done by others on materials supplied by the factory, (d) cost of office supplies and products reported for sale during last year & used for further manufacture during the accounting year and (e) rent paid for buildings and plant & machinery and other fixed assets, (f) expenses on Research & Development (R&D).

**34. *Intermediate Product:*** Intermediate Product is a product which is obtained during a manufacturing process, which may or may not be saleable and is not the intended final product.

**35. *Net Value of Semi-Finished Goods:*** It represents the excess/deficit of value of semi-finished goods and/or goods-in-process at the end of the accounting year over that at the beginning of year.

**36. Products:** These are defined to include the ex-factory value (i.e. exclusive of taxes, duties etc. on sale and inclusive of subsidies etc., if any) of all products and by-products, excluding intermediate products, that have been completed during the accounting year for sale whether actually sold during the accounting year or entered into books. Also include fixed assets produced by the factory for its own use.

**37. Gross Output:** Gross output is defined to include the ex-factory value, (i.e., exclusive of taxes, duties, etc. on sale and inclusive of subsidies etc., if any) of products and by-products manufactured during the accounting year, and the net value of the semi-finished goods, value of own construction and also the receipts for industrial and non-industrial services rendered to others, rent received for building, plant & machinery and other fixed assets, net balance of goods sold in the same condition as purchased, value of electricity generated and sold and an amount equal to expenses on research & development (R&D). Value of gross output and total output has been used in the text inter-changeably to mean the same thing.

**38. Industrial Services:** Any services taken or rendered from one to another unit resulting in increase in the value of material during the manufacturing process are industrial services.

**39. Non-Industrial Services:** All such services which do not have a direct bearing on the manufacturing process but are needed by any manufacturing unit are called non-industrial services, say, transport.

**40. Net Value Added:** This is the increment to the value of goods and services that is contributed by the factory and is obtained by deducting the value of total inputs and depreciation from gross value of output.

**41. Net Income:** It is obtained by deducting the value of rent paid & interest paid from the NVA.

**42. Net Profit:** It is obtained by deducting compensation of employees from net income.