



**उद्योगों का वार्षिक सर्वेक्षण**  
**ANNUAL SURVEY OF INDUSTRIES**  
**2016-2017**  
**फैक्टरी क्षेत्र के सार परिणाम**  
**SUMMARY RESULTS FOR**  
**FACTORY SECTOR**



**भारत सरकार**  
**सांख्यिकी एवं कार्यक्रम कार्यान्वयन मंत्रालय**  
**राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय**  
**समंक विधायन प्रभाग**  
**औद्योगिक सांख्यिकी स्कंध**  
**कोलकाता**

**GOVERNMENT OF INDIA**  
**MINISTRY OF STATISTICS AND PROGRAMME**  
**IMPLEMENTATION**  
**NATIONAL SAMPLE SURVEY OFFICE**  
**DATA PROCESSING DIVISION**  
**INDUSTRIAL STATISTICS WING**  
**KOLKATA**



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## ANNUAL SURVEY OF INDUSTRIES

2016-2017

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

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## प्रस्तावना

उद्योगों का वार्षिक सर्वेक्षण (उ.वा.स.) भारत के औद्योगिक दृश्य पर वस्तुगत मूल्यांकन की महत्वपूर्ण विशेषताओं के बारे में सूचना देता है। कारखाना अधिनियम, 1948 के अन्तर्गत पंजीकृत कारखानों और बीड़ी और सिगार कामगार (रोजगार की शर्तें) अधिनियम, 1966 के अधीन प्रतिष्ठानों के संगठित विनिर्माणकारी क्षेत्र इसके अंतर्गत आते हैं और विद्युत उत्पादन, संचारण तथा वितरण में लगे विद्युत उपकरणों जो केंद्रीय विद्युत अधिकरण (सी.ई.ए) द्वारा पंजीकृत नहीं हैं वे भी उ.वा.स. में शामिल हैं।

उ.वा.स. अब एक वेब आधारित प्रणाली "ASI Web Portal" के माध्यम से संचालित की जा रही है, जो इस मंत्रालय का प्रथम सफल ई-गवर्नेंस है। उ.वा.स. 2016-17 के दौरान प्रतिदर्श चयन, आंकड़ा प्रविष्टि, विधिमान्यकरण, संवीक्षा आदि "ASI Web Portal" के माध्यम से ऑनलाइन पूरी की गई है।

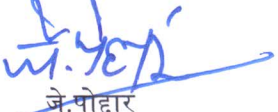
परिपाटी के मुताबिक उ.वा.स. के परिणाम दो खंडों में प्रकाशित होते हैं। खण्ड-1 में पूँजी, रोजगार, परिलब्धियों, और औद्योगिक क्षेत्र से संबद्ध अन्य कई आर्थिक मानदंड जैसे- (i) कारखानाओं की संख्या (ii) अचल/कार्यशील पूँजी (iii) कुल निवेश (iv) कुल उत्पाद (v) मूल्य ह्रास (vi) शुद्ध वर्धित मूल्य आदि दिए गए हैं। खण्ड- 11 में उपभोग की गई सामग्रियां, उत्पाद का कारखाना बाह्य मूल्य, जो राज्यों/संघ शासित राज्य-क्षेत्र के साथ-साथ संपूर्ण भारत के स्तर पर का विस्तृत विवरण देता है। जबकि खण्ड-1 को उ.वा.स. के वेब-पोर्टल ([www.csoisw.gov.in](http://www.csoisw.gov.in)) पर अपलोड किया जाता है, खंड-11 को ई-मीडिया (सी.डी.रोम) पर प्रकाशित किया जाता है।

राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय ने उ.वा.स. के परिणाम के कुछ मुख्य विशेषताओं की तरफ ध्यान आकर्षित करने के लिए संक्षिप्त प्रकाशन के महत्व की पहचान की। इस उद्देश्य को ध्यान में रखते हुए 'कारखाना क्षेत्र का सार परिणाम' को अलग से प्रकाशन के लिए लाया जा रहा है और इसे उ.वा.स. के वेब-पोर्टल ([www.csoisw.gov.in](http://www.csoisw.gov.in)) पर अपलोड किया जा रहा है। इस प्रकाशन का मकसद अखिल भारत और राज्य/संघ-शासित राज्य-क्षेत्र की प्रधान विशेषताओं पर विशेष तालिकाओं के माध्यम से उ.वा.स. परिणामों की सार दृष्टिकोण एवं राष्ट्रीय औद्योगिक वर्गीकरण- 2008 (एन.आई.सी.-2008) की 2-अंकीय स्तर पर प्रकाश डालना है। यह रोजगार के आकार, पूँजी, सकल उत्पाद और निवल वर्धित मूल्य जैसी महत्वपूर्ण विशेषताओं के आधार पर कारखानाओं के वितरण की जानकारी देता है। तालिकाएं, जो प्रत्येक राज्य/संघ राज्य-क्षेत्र एवं सर्वभारतीय स्तर पर 80% अंशदान करनेवाले बड़ी कंपनियों से संबंधित हैं, क्षेत्रीय स्तर के दृश्य को भी दर्शाती हैं। इसके अतिरिक्त, यह संगठित विनिर्माणकारी क्षेत्रों में अतिकाल के दौरान हुए परिवर्तनों की बेहतर परिकल्पना करने के लिए ग्राफ और चार्ट दिया है।

इन खंडों को प्रकाशित करने हेतु राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय के क्षेत्र कार्य प्रभाग एवं औद्योगिक सांख्यिकी स्कंध, समंक विधायन प्रभाग के अधिकारियों एवं कर्मचारियों के समर्पित प्रयासों की मैं प्रशंसा करता हूँ। मैं कारखाना प्रबंधन की भी प्रशंसा करता हूँ, जिन्होंने संबद्ध अभिलेखों से आंकड़ा संग्रह करने में क्षेत्र अधिकारियों को सभी प्रकार का सहयोग दिया है।

इस रिपोर्ट के सुधार के लिए सुझावों का बहुत स्वागत है।

नई दिल्ली,  
मार्च, 2019

  
जे.मोहान

महानिदेशक (सर्वे)  
राष्ट्रीय प्रतिदर्श सर्वेक्षण 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).

ASI is now being conducted through a web based system called 'ASI Web Portal', the first successful e-governance project of this Ministry. The sample selection, data entry, validations, scrutiny etc. for ASI 2016-17 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 ASI Web Portal ([www.csoisw.gov.in](http://www.csoisw.gov.in)), Volume II is published in e-media (CD-ROM).

NSSO 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 ASI Web Portal ([www.csoisw.gov.in](http://www.csoisw.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 State/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 Processing Division of NSSO for their dedicated efforts in bringing out the publication. I also record my appreciation for the factory management, who had extended all co-operation to the field officers in collecting the data from relevant records.

Suggestions for improvement are most welcome.

New Delhi  
March, 2019

Jyotirmoy Poddar  
Director General (Survey)  
National Sample Survey Office  
Ministry of Statistics & Programme Implementation  
Government of India



## उद्योगों का वार्षिक सर्वेक्षण: 2016-2017

### विषय-वस्तु

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## 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 ताकि 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 निर्माण को प्रभावित करने वाले विभिन्न कारकों का अध्ययन किया जा सके। उपरोक्त अधिनियम तथा उसके तहत बनाए गए नियमावली की प्रति **परिशिष्ट-1** में दिए गए हैं।

**1.1.2** वार्षिक उद्योग सर्वेक्षण का विस्तार समग्र कारखाना क्षेत्र पर है जिसमें वे सभी औद्योगिक इकाइयाँ (जो कारखाना कहलाती हैं) शामिल हैं जो फैक्टरी अधिनियम, 1948 की धारा 2(एम) (i) तथा 2(एम)(ii) के अंतर्गत पंजीकृत हों। उक्त कारखाना अधिनियम में "कारखाना" जो कि उद्योगों के वार्षिक सर्वेक्षण के लिए परिगणना की प्राथमिक 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, तैलित करने, धोने, सफाई करने, अलग-अलग पूर्जों में विभाजित करने, ढहाने 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 छपाई 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 पूर्जे खोलकर पुनः लगाने, उन्हें परिसज्जित करने या अलग-अलग पूर्जों में विभाजित करने के लिए किया जाता हो।
- (vi) किसी वस्तु को शीतागार में परिरक्षित करने के लिए।

**1.1.3** कारखाना अधिनियम, 1948 की धारा 2(एम)(i) और 2(एम)(ii) के अतिरिक्त बीड़ी एवं सिगार इकाईयाँ, 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 इकाईयाँ हैं,



उ.वा.स. में शामिल है। 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 के खंड 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) में राज्य सरकारों द्वारा तैयार तथा राष्ट्रीय लेखा प्रभाग, केंद्रीय सांघिकी कार्यालय के पास उपलब्ध तथा क्षेत्र कार्य प्रभाग, राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय द्वारा सत्यापित किसी भी सात अधिनियम/बोर्ड/प्रधिकरण जैसे, कंपनीज एक्ट. 1956; कारखाना अधिनियम. 1948; शॉप्स एंड कमर्शियल एस्टेब्लिसमेंट एक्ट; सोसाइटीज रजिस्ट्रेशन एक्ट; कोऑपरेटिव सोसाइटीज एक्ट; खादि एंड विलेज इंडस्ट्रिज बोर्ड; डाइरेक्टरेट ऑफ इंडस्ट्रिज (डिस्ट्रिक्ट इंडस्ट्रिज सेंटर) 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, काफे एवं कम्प्यूटर सेवाएं, विभागीय इकाइयां 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। 2016-2017 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 बीडी 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 के 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.फै.नि.) द्वारा रखी जा रही पंजीकृत कारखाना इकाइयों तथा बीडी 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 रा.प्र.स.का 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 सह, पर उत्पादन रहित हैं' तथा 'अचल आस्तियों सह, पर मेनटेनिंग स्टाफ व उत्पादन रहित हैं' की कोटि में रखा गया है।

## 1.4 संदर्भ अवधि

1.4.1 उ.वा.स. 2016-2017 की संदर्भ अवधि कारखाना का लेखा वर्ष था जो कि वित्तीय वर्ष 2016-2017 के दौरान किसी भी दिन समाप्त होने वाला दिन था। अतः उ.वा.स. 2016-2017 में विभिन्न स्थापनाओं से संग्रहित किए गए ऑकड़े 1 अप्रैल, 2016 व 31 मार्च, 2017 के बीच उनके अपने लेखा वर्ष को समाप्त किसी भी दिन से संबंधित है। सर्वेक्षण वर्ष 2018 में किया गया था।

## 1.5 प्रतिदर्श डिजाइन एवं प्रतिदर्श आबंटन

1.5.1 उ.वा.स. 2016-17 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 इकाइयों हैं-

- (क) सभी औद्योगिक इकाइयों, 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) "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 इकाइयों जिनमें 75 या अधिक कर्मचारी काम करते हैं।
- (ii) तीन राज्यों यथा, चंडीगढ़, दिल्ली तथा पुडुच्चेरी की वैसी इकाइयों जिनमें 50 या अधिक कर्मचारी काम करते हैं।
- (iii) वे इकाइयों जिनमें 100 या इससे ज्यादा कामगार हों एवं जो उपरोक्त (i) तथा (ii) में उल्लिखित नहीं हैं।
- (iv) संयुक्त रिटर्न के अंतर्गत आनेवाली सभी इकाइयां 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 इकाइयां हों

(ग) उपरोक्त (क) एवं (ख) में परिभाषित गणना स्कीम इकाइयों को छोड़कर स्ट्रूटा 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। (राज्य x जिला x क्षेत्र x तीन अंकीय एन.आई.सी.-2008 आधार पर निर्मित) स्ट्रूटा की इकाइयों चार इकाइयों के बराबर या उससे कम है, उनकी भी संपूर्ण गणना की जाती है और उन्हें भी "गणना क्षेत्र" की इकाई समझी जाती है।

### (घ) 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 स्ट्रेटम में इकाइयों को कर्मचारियों की संख्या के अनुसार अवरोही क्रम में रखा जाता है। प्रतिदर्श चयन हेतु स्ट्रेटिफाइड सर्कुलर सिस्टैमेटिक प्रतिदर्श तरीका अपनाया जाता है। कम से कम चार इकाइयों का इकाइयों की समसंख्या का चयन किया जाता है और इसे चार उप-प्रतिदर्शों में बराबर बाँट दिया जाता है। उल्लेखनीय है कि एक विशेष स्ट्रेटम के चार उप-प्रतिदर्शों की संख्या समान नहीं भी हो सकती है।

- (ड.) इन चार उप-प्रतिदर्शों में से दो पूर्व-निर्दिष्ट उप-प्रतिदर्श रा.प्र.स.का.(क्षे.का.प्र.) को दिया जाता है और बाकी दो उप-प्रतिदर्श आँकड़ा संग्रहण हेतु राज्य/संघ राज्य क्षेत्र को दे दिया जाता है।
- (च) संपूर्ण गणना इकाई व रा.प्र.स.का.(क्षे.का.प्र.) को दिए गए दो उप-प्रतिदर्शों की सभी इकाइयों को केंद्रीय प्रतिदर्श समझा जाता है।
- (छ) राज्य/संघ राज्य क्षेत्र को दिए गए दो उप-प्रतिदर्शों का अपने राज्य/ संघ राज्य क्षेत्र द्वारा कैनवास किया जाना है। अतः अपने-अपने राज्य/ संघ राज्य क्षेत्र के जिला स्तर के प्राक्कलनों को प्राप्त करते समय राज्य/संघ राज्य क्षेत्र को उनके उप-प्रतिदर्शों के साथ-साथ रा.प्र.स.का.(क्षे.का.प्र.) द्वारा संग्रहित तथा औ.सां स्कंध, समंक विधायन प्रभाग, रा.प्र.स.का. द्वारा संसाधित आँकड़ों का प्रयोग करना पड़ता है।
- (ज) राज्य प्रतिदर्श एवं केंद्र प्रतिदर्श के पूलन हेतु संपूर्ण गणना इकाई व रा.प्र.स.का.(क्षे.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 स्ट्रैटा से 12% औसत प्रतिदर्श अंश समझकर लिया गया है। 'खुला', "अचल आस्तियों व मेनटेनिंग स्टाफ सह पर उत्पादन रहित हैं" तथा 'अचल आस्तियों सह पर मेनटेनिंग स्टाफ व उत्पादन रहित" स्थिति वाली इकाइयों वाले लाइव फ्रेम का आकार 2,35,912 था। इनमें से गणना क्षेत्र का 47,831 यूनिट तथा बाकी 1,88,081 यूनिट प्रतिदर्श क्षेत्र का था। उ.वा.स. 2016-17 में कुल प्रतिदर्श आकार 76,977 (गणना, 47,831 तथा प्रतिदर्श 29,146) यूनिट था।

## 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 यूनिटों के संबंध में सर्वे के दौरान पाया जाता है कि इकाई दिए गए स्थान में थीं और संदर्भ अवधि के दौरान कुछ कामगार भी काम में लगे हुए थे, किंतु 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 यूनिटों को संदर्भ अवधि के दौरान उ.वा.स. के उद्देश्य से अचल आस्तियां सह, पर मेनटेनिंग स्टाफ व उत्पादन रहित समझा जाता है और उसी तरह से दूसरे सर्वेक्षित यूनिटों (यथा, यूनिट जिनके लिए संबद्ध सूचना एकत्रित की जा सके) के साथ सभी मानदंडों जैसे, आस्तियां, रोजगार, इत्यादि में रखा जाता है। कुछ दूसरे यूनिट भी हैं जो किसी दिए गए स्थान में थीं, परंतु संदर्भ अवधि में किसी कामगार की नियुक्ति नहीं की और संदर्भ अवधि में न तो उत्पादन आरंभ की और न ही कुछ पैदा कर पाई। ऐसी यूनिटों को उ.वा.स. के उद्देश्य से, संदर्भ अवधि में अचल आस्तियों सह पर मेनटेनिंग स्टाफ व उत्पादन रहित समझा जाता है। इसके अलावा, परिपाटी के मुताबिक, ऐसी यूनिटों को लगातार तीन वर्षों तक फ्रेम में रखी जाती है और सर्वे में चयन के लिए यह सोचकर उपयुक्त समझी जाती है कि वे कुछ कामगारों को रखकर कभी भी उत्पादन प्रारंभ कर सकती है। तथापि, यदि लगातार तीन वर्षों तक ऐसी यूनिटें जो 'अचल आस्तियों सह पर मेनटेनिंग स्टाफ व उत्पादन रहित" अस्तित्व में पायी जाती हैं, तो समझा जाता है कि वे मृत हैं और फ्रेम से विलुप्त कर सर्वे से हटा दिया जाता है। उल्लेखनीय है कि संदर्भित अवधि के लिए युनिटों(कारखानों) की प्राक्कलित संख्या देने में, इस रिपोर्ट में प्रस्तुत मानदंडों के प्रचलित तरीके से प्राक्कलन के लिए इन यूनिटों को अन्य सर्वेक्षित युनिटों के साथ रखा जाता है।

**1.6.3** प्रकाशन में जो परिणाम दिए गए हैं वे, क्षेत्र संकार्य प्रभाग, राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय द्वारा संग्रहित तथा औ.सां.स्कंध, समंक विधायन प्रभाग, रा.प्र.स. कार्यालय द्वारा संसाधित केंद्रीय प्रतिदर्श आँकड़ों पर आधारित हैं। इसके अतिरिक्त, इस प्रकाशन में दिए गए प्राक्कलित मूल्य के आँकड़े चालू मूल्यों में दिए गए हैं। मूल्यांकों को हजार या लाख रूप० 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 सकता है। इसी प्रकार, सर्व-उद्योग आँकड़े अलग-अलग उद्योग आँकड़ों के योग से मेल नहीं भी खा सकता है। विभिन्न



स्तरों पर उद्योगों के विलयन के कारण (पैरा 1.9.2), निम्न स्तर की उद्योगवार कुल संख्या भी परवर्ती उच्चतर संख्या से मेल नहीं भी खा सकती है।

## 1.7 जॉच की अनुसूची

1.7.1 उ.वा.स. 2016-17 की अनुसूची के दो भाग हैं। भाग एक का विधायन औ.सां.स्कंध, समंक विधायन प्रभाग, रा.प्र.स.का में किया जाता है, जिसका उद्देश्य अचल परिसंपत्तियों 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 ऑकड़े संग्रह करना है। भाग दो, जिसका प्रक्रमण श्रम ब्यूरो द्वारा किया जाता है, का उद्देश्य श्रम सांख्यिकी से संबंधित विभिन्न पक्षों, जैसे कि कार्य दिवस, श्रम घंटे, अनुपस्थिति, श्रमिकावर्त, उपार्जन एवं सामाजिक सुरक्षा लाभों के बारे में ऑकड़े एकत्रित करना है।

उ.वा.स. 2016-17 अनुसूची की एक प्रति **परिशिष्ट - III** में दी गई है। उ.वा.स. सर्वेक्षण में प्रयुक्त विभिन्न अवधारणाएं व परिभाषाएं **परिशिष्ट- I V** 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 हैं। यह एक पूर्ण उत्पाद वर्गीकरण है जिसमें SNA वर्गीकरण 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 हैं 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 H, I व J ब्लॉक में स्थित निवेश निर्गम मदों को दर्ज करने के लिए किया गया है। उ.वा.स. 2016-17 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 वा.उ.स. 1988-89 तक कारखानों के आर्थिक क्रिया कलापों के वर्गीकरण के लिए एन.आई.सी.-1970 का अनुसरण किया गया था। तब 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 उपयोग में लाया गया। उ.वा.स. 2008-09 से एन.आई.सी.-2008 चालू किया गया। यह वा.उ.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 2 या 3 या 4 अंकीय स्तर के उद्योग एन.आई.सी. 2008 वर्गीकरण से मेल खाते हैं। दो अंकीय एन.आई.सी. विभाजन 10-33, 38 व 58 के सभी कारखाने और एन.आई.सी.-2008 के उप-वर्ग 01632, 01640 & 08932 और अन्य कारखाने (सारणी 0 में सूचीकृत) भी उ.वा.स. 2016-17 में शामिल हैं। इस प्रकाशन के लिए सारणी 0 उद्योगों के वर्गीकरण को वृहत् कोटि में दर्शाती है।

## सारणी O : उद्योगों का वर्गीकरण वृहत वर्गों में

एन.आई.सी-08	वृहत वर्गीकरण 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(मलनिकासी)	
4520(मोटर वाहनों की मरम्मत व रख रखाव)	
4540(मोटर साईकिल व इनसे जुड़े अवयवों की विक्री रखरखाव 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(आवाज 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 प्रकाशन एवं प्रतिबंध

**1.9.1** इस प्रकाशन में दिए गए परिणाम क्षेत्र.सं.प्र., रा.प्र.स.का द्वारा संग्रहित और औ.सां.स्कंध, समंक विधायन प्रभाग, रा.प्र.स.का द्वारा संसाधित केंद्रीय प्रतिदर्श आँकड़ों पर आधारित होते हैं। उ.वा.स. 2016-17 के परिणाम सर्वभारतीय स्तर पर NIC-2008 के 2/3/4 अंकीय स्तर पर तथा राज्यों/संघ राज्य क्षेत्र स्तर पर NIC-2008 के 2/3- अंकीय स्तर पर जारी किए जाते हैं। खंड-I में अचल पूंजी तथा वर्धित मूल्य, रोजगार तथा मजदूर लागत, खपत इंधन आदि की सारणी है, जबकि खंड-II में 3-अंकीय NIC राज्यवार खपत माल, तथा कारखानों द्वारा उत्पन्न उत्पाद और उपोत्पाद है। इन निवेश निर्गम मदों को विनिर्माण क्षेत्र (NPC-MS), 2011(संशोधित) के लिए राष्ट्रीय उत्पाद वर्गीकरण के अनुसार वर्गीकृत किया जाता है।

**1.9.2** सांख्यिकी संग्रहण अधिनियम, 2008 के अनुसार अलग-अलग कारखानों का आँकड़ा बताना निषिद्ध है। अतः अगर किसी राज्य में (एन.आई.सी 08 के दो अंकीय/ तीन अंकीय स्तर )के किसी उद्योग के अंतर्गत कारखानों की संख्या तीन से कम हो,

तो संबंधित स्ट्रेटम के ऐसे सभी इकाईयों की पहचान छुपाने के लिए ऑकड़ों को एकसमान उद्योग से मिला दिया गया है। इसी तरह यदि सर्वभरतीय स्तर पर एन.आई.सी चार अंकीय/तीन अंकीय स्तर के अंतर्गत इकाईयों की सं. तीन से कम है, तो उद्योग को उसी वृहत उद्योग समूह के अंतर्गत एकसमान उद्योग में मिलित कर दिया गया है।

**1.9.3** सभी प्राक्कलन किसी विशेषतः विशेष उपयुक्त व उत्पादित मद की मात्रा का मूल्यांक सांख्यिकीय भूलों के अधीन है क्योंकि इनका प्राक्कलन किसी चयनित प्रतिदर्श के आधार पर किया जाता है। उन वस्तुओं के लिए उपभोग तथा उत्पादन का प्राक्कलन अलग - अलग नहीं किया जाता है जिसके लिए अवलोकन की सं. अपर्याप्त है। उन्हें 'अन्य' के अंतर्गत दर्शाया जाता है क्योंकि वैसे मदों के प्राक्कलन उचित नहीं हो सकते हैं।

**1.9.4** 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. कवरेज के अंतर्गत अन्य सभी उद्योग कोडों के लिए ईकाईयों को एक साथ मिलाया गया है और उन्हें एक सामान्य उद्योग 'अन्य' के अंतर्गत विभिन्न सारणियों में दिखाया गया है।

**1.9.5** अन्य उल्लेखनीय बिंदु यह है कि डिसएग्रीगेट स्तर पर इस रिपोर्ट में दिखाए गए कुछ मानदंडों 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 अधीन हैं और इस प्रकार प्रयोगकर्ता समय के अनुसार इन मानदंडों के आकार तथा बदलाव की व्याख्या कर सकते हैं।

**1.9.6** कुछ विशेष मामलों में, पिछले साल की तुलना में कुछ विशिष्टताओं में असामान्य वृद्धि/गिरावट हो सकते हैं, उसके संभावित कारण निम्नलिखित हैं:-

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

(ख) गुणकों के पर्याप्त मूल्य रखनेवाले कुछ प्रतिदर्श ईकाईयों का चयन/अचयन।

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

(घ) पिछले वर्ष के गणना इकाईयों का चालू वर्ष में 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।

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



## 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 of 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 available with National Accounts Division, Central Statistics Office and verified by Field Operations Division (FOD), NSSO 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 2016-2017 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 periodically by the Regional Offices of the Field Operations Division (FOD) of NSSO 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 2016-2017 was the accounting year of the factory, ending on any day during the financial year 2016-2017. Thus in ASI 2016-2017, data collected from establishments relate to their respective accounting years that ended on any day between 1st April 2016 and 31st March 2017. Survey was conducted in the year 2018.

### 1.5 Sample Design and Sample Allocation

**1.5.1** As per sampling design adopted in ASI 2016-17, 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) 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.

c) After excluding the Census Sector units as defined in paragraphs a) and b) above, the strata are formed at State  $\times$  District  $\times$  Sector  $\times$  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.

#### (d) 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.

(e) Out of these 4 sub-samples, two pre-assigned sub-samples are given to NSSO (FOD) and the other two-subsamples are given to State/UT for data collection.

(f) The entire census units *plus* all the units belonging to the two sub-samples given to NSSO (FOD) are treated as the **Central Sample**.

(g) 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 NSSO (FOD) and processed



by IS Wing, DPD, NSSO along with the state sample data while deriving the district level estimates for their respective State/UT.

(h) The entire census scheme units *plus* all the units belonging to the two sub-samples given to NSSO (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 12% 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 2,35,912. Of these, 47,831 units belonged to the Census Sector, while the remaining 1,88,081 units formed the Sample Sector. Total sample size for ASI 2016-17 was 76,977 (47,831 Census and 29,146 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, NSSO and processed by IS Wing, DPD, NSSO. 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 1.9.2).

## **1.7 Schedule of Enquiry**

**1.7.1** The schedule for ASI 2016-17 has two parts. Part-I which is processed at IS Wing, DPD, NSSO, 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.

A copy of the ASI 2016-17 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. In ASI 2016-17, 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) are covered in ASI 2015-16. Table 0 shows the classification of industries into broad categories for this publication.**

**Table 0: 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 Publications and Limitations**

**1.9.1** The results presented in this publication are based on the central sample data collected by FOD, NSSO and processed by IS Wing, DPD, NSSO. The results of ASI 2016-17 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).

**1.9.2** 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. 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.

**1.9.3** 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.

**1.9.4** 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.

**1.9.5** 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.

**1.9.6** 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.

## 2 कारखानों की संख्या की आकलन प्रक्रियाएँ

2.1 उ.वा.स. में प्रतिदर्श हमेशा फ्रेम से निकाले जाते थे, जिनमें स्टैटस कोड '1', '2' और '3' की यूनिटें होती हैं यथा, जो क्रमशः 'खुला', 'फ़िक्स्ड एससेट्स एवं मेंटनिंग स्टाफ सह विद्यमान पर उत्पादन रहित', 'फ़िक्स्ड एससेट्स परंतु मेंटनिंग स्टाफ व उत्पादन रहित' - कारण यह है कि इन्हें जीवित समझा जाता है और कुछ का संदर्भ अवधि में प्रचालन किया गया है और कुछ अन्य भूत में निरन्तर उत्पादन कर रहे थे पर कुछ निश्चित कारणों से वे संदर्भ अवधि में कुछ भी प्रचालन/उत्पादन नहीं किए, किन्तु सभी परिसम्पतियाँ इत्यादि के साथ मौजूद हैं और किसी भी समय उत्पादन प्रारंभ कर सकते हैं। इन सभी मामलों में यूनिटों को 'सर्वेक्षित' समझा जाता है, यदि यूनिट के लिए आवश्यक सूचना संग्रहित की जाती है अन्यथा इन्हें 'अप्रतिवेदित या कैजुअल्टी' माना जाता है। गुणकों की गणना में यूनिटों के स्टैटस के विभिन्न मामलों में टेबुल 1 विवेचना करता है।

2.2 स्टैटमेंट 0A (i) फ्रेम में (ii) चयनित और (iii) उ.वा.स. 2016-17 में सर्वेक्षित राज्यवार/संघ राज्य-क्षेत्रवार कारखानों की संख्या दर्शाता है। यह उल्लेख किया जा सकता है कि 'सर्वेक्षित' मामलों में उपर वर्णित कैजुअल्टी मामले शामिल नहीं हैं। उ.वा.स. 2016-17 में सर्वे की स्थिति के अनुसार स्टैटमेंट 0B व OC क्रमशः चयनित कारखानों की संख्या का पूर्ण और प्रतिशतता वितरण बताता है।

2.3 वर्ष 2016-17 में सर्वे की स्थिति के अनुसार स्टैटमेंट 1ए कारखानों की प्राक्कलित संख्या (पूर्ण रूप में) का बताता है और स्टैटमेंट 2ए 'प्रचालन में कारखानों की संख्या' का आकलन (पूर्ण रूप से) प्रत्येक राज्य/संघ शासित राज्य-क्षेत्र के लिए अलग-अलग दर्शाता है। यह उल्लेख किया जा सकता है कि इस प्रकाशन में प्रस्तुत सभी दरें और अनुपात 'चालू कारखानों' से प्राप्त वितरण दिए गए हैं। निजी प्रतिशतता का वितरण 1बी तथा 2बी स्टैटमेंट में दिए गए हैं।

2.4 स्टैटमेंट 1A व 1बी से देखा जा सकता है कि सर्वे के दौरान लगभग 40,485 कारखानों (17.24%) ने अपना स्टैटस कोड 4 दिखाया है। यह इस बात का संकेत देता है कि इन यूनिटों को फ्रेम में नहीं होना चाहिए था, क्योंकि 'यूनिट का मौजूद नहीं होना या मालिक का पता नहीं है' या 'रजिस्ट्रेशन' रद्द होने या विस्तार-क्षेत्र के बाहर होने से यूनिट का नाम हटा दिया जाना आदि कारण हो सकते हैं और गुणक की गणना करने में ऐसी यूनिटों को 'जीरो' केसेज माना जाता है। 2,34,865 आकलित कारखानों की संख्या में लगभग 1,93,524 (82.40%) इसी प्रकार के हैं जिनका स्टैटस कोड 1, 2 और 3 के साथ है। आदर्श रूप से केवल इन्हें वर्ष 2016-17 के दौरान फ्रेम में मौजूद होना चाहिए था। आगे, केवल 855 कारखानों (0.36%) के संबंध में, जिसने चालू वर्ष में कोई आंकड़ा नहीं दिया (नन-रिसपोन्स), आंकड़ा पिछले वर्ष से अध्यारोपित किया जा सका। वैसे यूनिट जिनका स्टैटस कोड 1, 2 व 3 है और जिन्हें पिछले वर्ष से अध्यारोपित किया गया है, उन्हें 'चालू यूनिट' समझा जाता है और उनका प्रयोग उ.वा.स. 2016-17 पर आधारित रिपोर्टों में दी गई सभी दर और अनुपात की गणना में उपयोग होता है, जब तक कि अन्य रूप से उल्लिखित नहीं हो।

टेबुल 1 : सर्वेक्षित मामलों, जीरो केसेज और असर्वेक्षित मामलों के लिए निरूपण

कोड	गुणक की गणना का निरूपण
1,2,3	'खुला' तथा चालू मामला समझा जाता है यदि केवल यूनिट के लिए उपयुक्त आवश्यक सूचना उपलब्ध है। अन्यथा नन-रिस्पॉस (कैजुअल्टी) माना जाए।
4	सभी मानदंडों 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 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 2016-17. 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 number of selected factories by status of survey for ASI 2016-17.

**2.3** Statement 1A gives the estimated 'number of factories' (in absolute terms) in 2016-17 by status of survey, and Statement 2A displays the estimated 'number of factories in operation' (in absolute terms) by status of survey separately for each State/UT. It may be noted that all the rates and ratios, presented in this publication, are derived for 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 40,485 factories (17.24%) 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 2,34,865 'number of factories', about 1,93,524 factories (82.40%) are with status codes 1, 2 and 3 and ideally, only they should have been present in the frame during the period 2016-17. Further, data could be imputed from last year in respect of only 855 factories (0.36%), which actually 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 rates and ratios in the reports based on ASI 2016-17 data unless otherwise mentioned.

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

<b>Code</b>	<b>Treatment in multiplier calculation</b>
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 OA: 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	21	21	18
Andhra Pradesh	16303	3580	3449
Arunachal Pradesh	126	126	125
Assam	4198	1565	1454
Bihar	3564	1526	1466
Chandigarh	249	118	117
Chattishgarh	3116	1081	1069
Dadra & Nagar Haveli	1378	439	429
Daman & Diu	1803	475	469
Delhi	3510	1430	1417
Goa	647	345	342
Gujarat	26042	6863	6707
Haryana	8548	3201	3131
Himachal Pradesh	2744	1024	960
Jammu & Kashmir	1020	489	483
Jharkhand	2878	994	942
Karnataka	13395	5079	4972
Kerala	7737	2753	2678
Madhya Pradesh	4546	2071	1988
Maharashtra	27130	8935	8652
Manipur	205	205	188
Meghalaya	131	131	120
Nagaland	192	192	192
Odisha	3092	1223	1144
Puducherry	668	353	348
Punjab	12515	3077	2961
Rajasthan	9084	3113	3009
Sikkim	73	73	71
Tamilnadu	37320	12624	12355
Telangana	15028	3567	3567
Tripura	592	592	585
Uttar Pradesh	15357	5268	5119
Uttrakhand	3011	1246	1203
West Bengal	9689	3198	2977
<b>All India</b>	<b>235912</b>	<b>76977</b>	<b>74707</b>

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

## Statement 0B: 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	16	0	0	2	2	1	0	21
Andhra Pradesh	2627	266	77	479	51	50	30	3580
Arunachal Pradesh	93	23	2	7	0	1	0	126
Assam	1298	92	36	28	60	42	9	1565
Bihar	1095	212	48	111	30	21	9	1526
Chandigarh	101	3	2	11	1	0	0	118
Chattishgarh	967	33	14	55	7	4	1	1081
D&N Haveli	359	5	1	64	1	3	6	439
Daman & Diu	353	6	0	110	2	4	0	475
Delhi	1180	23	17	197	0	1	12	1430
Goa	314	10	9	9	1	0	2	345
Gujarat	5467	63	48	1129	100	26	30	6863
Haryana	2707	47	14	363	55	9	6	3201
Himachal Pradesh	839	11	16	94	51	4	9	1024
Jammu & Kashmir	423	8	32	20	3	2	1	489
Jharkhand	765	37	63	77	27	18	7	994
Karnataka	4355	89	42	486	30	34	43	5079
Kerala	2255	232	16	175	44	17	14	2753
Madhya Pradesh	1811	35	29	113	41	13	29	2071
Maharashtra	7300	168	81	1103	96	59	128	8935
Manipur	163	9	9	7	0	15	2	205
Meghalaya	108	2	7	3	11	0	0	131
Nagaland	166	9	7	10	0	0	0	192
Odisha	916	78	72	78	27	21	31	1223
Puducherry	300	18	1	29	1	0	4	353
Punjab	2627	40	27	267	92	3	21	3077
Rajasthan	2706	81	64	158	41	22	41	3113
Sikkim	66	1	2	2	0	1	1	73
Tamilnadu	10556	657	78	1064	121	20	128	12624
Telangana	2081	218	835	433	0	0	0	3567
Tripura	354	205	14	12	0	7	0	592
Uttar Pradesh	4532	61	63	463	100	20	29	5268
Uttrakhand	1111	4	2	86	36	6	1	1246
West Bengal	2676	76	50	175	151	18	52	3198
<b>All India</b>	<b>62687</b>	<b>2822</b>	<b>1778</b>	<b>7420</b>	<b>1182</b>	<b>442</b>	<b>646</b>	<b>76977</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	76.19	0.00	0.00	9.52	9.52	4.76	0.00	100.00
Andhra Pradesh	73.38	7.43	2.15	13.38	1.42	1.40	0.84	100.00
Arunachal Pradesh	73.81	18.25	1.59	5.56	0.00	0.79	0.00	100.00
Assam	82.94	5.88	2.30	1.79	3.83	2.68	0.58	100.00
Bihar	71.76	13.89	3.15	7.27	1.97	1.38	0.59	100.00
Chandigarh	85.59	2.54	1.69	9.32	0.85	0.00	0.00	100.00
Chattishgarh	89.45	3.05	1.30	5.09	0.65	0.37	0.09	100.00
D&N Haveli	81.78	1.14	0.23	14.58	0.23	0.68	1.37	100.00
Daman & Diu	74.32	1.26	0.00	23.16	0.42	0.84	0.00	100.00
Delhi	82.52	1.61	1.19	13.78	0.00	0.07	0.84	100.00
Goa	91.01	2.90	2.61	2.61	0.29	0.00	0.58	100.00
Gujarat	79.66	0.92	0.70	16.45	1.46	0.38	0.44	100.00
Haryana	84.57	1.47	0.44	11.34	1.72	0.28	0.19	100.00
Himachal Pradesh	81.93	1.07	1.56	9.18	4.98	0.39	0.88	100.00
Jammu & Kashmir	86.50	1.64	6.54	4.09	0.61	0.41	0.20	100.00
Jharkhand	76.96	3.72	6.34	7.75	2.72	1.81	0.70	100.00
Karnataka	85.75	1.75	0.83	9.57	0.59	0.67	0.85	100.00
Kerala	81.91	8.43	0.58	6.36	1.60	0.62	0.51	100.00
Madhya Pradesh	87.45	1.69	1.40	5.46	1.98	0.63	1.40	100.00
Maharashtra	81.70	1.88	0.91	12.34	1.07	0.66	1.43	100.00
Manipur	79.51	4.39	4.39	3.41	0.00	7.32	0.98	100.00
Meghalaya	82.44	1.53	5.34	2.29	8.40	0.00	0.00	100.00
Nagaland	86.46	4.69	3.65	5.21	0.00	0.00	0.00	100.00
Odisha	74.90	6.38	5.89	6.38	2.21	1.72	2.53	100.00
Puducherry	84.99	5.10	0.28	8.22	0.28	0.00	1.13	100.00
Punjab	85.38	1.30	0.88	8.68	2.99	0.10	0.68	100.00
Rajasthan	86.93	2.60	2.06	5.08	1.32	0.71	1.32	100.00
Sikkim	90.41	1.37	2.74	2.74	0.00	1.37	1.37	100.00
Tamilnadu	83.62	5.20	0.62	8.43	0.96	0.16	1.01	100.00
Telangana	58.34	6.11	23.41	12.14	0.00	0.00	0.00	100.00
Tripura	59.80	34.63	2.36	2.03	0.00	1.18	0.00	100.00
Uttar Pradesh	86.03	1.16	1.20	8.79	1.90	0.38	0.55	100.00
Uttrakhand	89.17	0.32	0.16	6.90	2.89	0.48	0.08	100.00
West Bengal	83.68	2.38	1.56	5.47	4.72	0.56	1.63	100.00
<b>All India</b>	<b>81.44</b>	<b>3.67</b>	<b>2.31</b>	<b>9.64</b>	<b>1.54</b>	<b>0.57</b>	<b>0.84</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	16	0	0	0	0	0	2	18
Andhra Pradesh	11207	1495	360	16	1	4	3162	16246
Arunachal Pradesh	93	23	2	0	0	0	7	125
Assam	3586	302	134	1	1	0	130	4154
Bihar	2014	774	118	2	0	0	623	3531
Chandigarh	181	16	2	1	0	0	48	248
Chattishgarh	2748	96	30	1	0	0	235	3109
D&N Haveli	932	30	7	2	0	0	398	1369
Daman & Diu	1099	18	0	1	0	0	681	1799
Delhi	2539	50	58	4	17	31	808	3507
Goa	582	28	14	0	1	1	21	647
Gujarat	18450	265	203	37	3	22	6986	25966
Haryana	6575	175	76	21	0	8	1649	8503
Himachal Pradesh	2129	47	38	18	0	2	488	2721
Jammu & Kashmir	838	14	85	0	0	0	78	1016
Jharkhand	2039	142	255	10	0	3	409	2858
Karnataka	10224	295	175	7	2	46	2596	13344
Kerala	5995	664	65	19	0	5	949	7697
Madhya Pradesh	3800	72	58	24	3	19	519	4494
Maharashtra	20059	548	343	40	13	91	5915	27010
Manipur	163	9	9	0	0	0	7	188
Meghalaya	107	2	7	1	0	0	3	120
Nagaland	166	9	7	0	0	0	10	192
Odisha	2212	168	303	2	0	9	357	3051
Puducherry	502	35	5	0	0	4	120	665
Punjab	10377	178	118	29	0	3	1784	12489
Rajasthan	7618	316	301	13	0	15	763	9026
Sikkim	62	1	2	0	0	4	2	71
Tamilnadu	27946	3078	447	37	4	103	5606	37220
Telangana	7226	1120	4378	0	0	0	2303	15028
Tripura	354	205	14	0	0	0	12	585
Uttar Pradesh	12537	120	151	62	0	24	2400	15294
Uttrakhand	2520	18	8	7	1	2	431	2987
West Bengal	8067	248	226	27	5	30	983	9587
<b>All India</b>	<b>174964</b>	<b>10562</b>	<b>7998</b>	<b>380</b>	<b>50</b>	<b>425</b>	<b>40485</b>	<b>234865</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	88.89	0.00	0.00	0.00	0.00	0.00	11.11	100.00
Andhra Pradesh	68.98	9.20	2.22	0.10	0.01	0.02	19.46	100.00
Arunachal Pradesh	74.40	18.40	1.60	0.00	0.00	0.00	5.60	100.00
Assam	86.33	7.27	3.23	0.02	0.02	0.00	3.13	100.00
Bihar	57.04	21.92	3.34	0.06	0.00	0.00	17.64	100.00
Chandigarh	72.98	6.45	0.81	0.40	0.00	0.00	19.35	100.00
Chattishgarh	88.39	3.09	0.96	0.03	0.00	0.00	7.56	100.00
D&N Haveli	68.08	2.19	0.51	0.15	0.00	0.00	29.07	100.00
Daman & Diu	61.09	1.00	0.00	0.06	0.00	0.00	37.85	100.00
Delhi	72.40	1.43	1.65	0.11	0.48	0.88	23.04	100.00
Goa	89.95	4.33	2.16	0.00	0.15	0.15	3.25	100.00
Gujarat	71.05	1.02	0.78	0.14	0.01	0.08	26.90	100.00
Haryana	77.33	2.06	0.89	0.25	0.00	0.09	19.39	100.00
Himachal Pradesh	78.24	1.73	1.40	0.66	0.00	0.07	17.93	100.00
Jammu & Kashmir	82.48	1.38	8.37	0.00	0.00	0.00	7.68	100.00
Jharkhand	71.34	4.97	8.92	0.35	0.00	0.10	14.31	100.00
Karnataka	76.62	2.21	1.31	0.05	0.01	0.34	19.45	100.00
Kerala	77.89	8.63	0.84	0.25	0.00	0.06	12.33	100.00
Madhya Pradesh	84.56	1.60	1.29	0.53	0.07	0.42	11.55	100.00
Maharashtra	74.27	2.03	1.27	0.15	0.05	0.34	21.90	100.00
Manipur	86.70	4.79	4.79	0.00	0.00	0.00	3.72	100.00
Meghalaya	89.17	1.67	5.83	0.83	0.00	0.00	2.50	100.00
Nagaland	86.46	4.69	3.65	0.00	0.00	0.00	5.21	100.00
Odisha	72.50	5.51	9.93	0.07	0.00	0.29	11.70	100.00
Puducherry	75.49	5.26	0.75	0.00	0.00	0.60	18.05	100.00
Punjab	83.09	1.43	0.94	0.23	0.00	0.02	14.28	100.00
Rajasthan	84.40	3.50	3.33	0.14	0.00	0.17	8.45	100.00
Sikkim	87.32	1.41	2.82	0.00	0.00	5.63	2.82	100.00
Tamilnadu	75.08	8.27	1.20	0.10	0.01	0.28	15.06	100.00
Telangana	48.08	7.45	29.13	0.00	0.00	0.00	15.32	100.00
Tripura	60.51	35.04	2.39	0.00	0.00	0.00	2.05	100.00
Uttar Pradesh	81.97	0.78	0.99	0.41	0.00	0.16	15.69	100.00
Uttrakhand	84.37	0.60	0.27	0.23	0.03	0.07	14.43	100.00
West Bengal	84.15	2.59	2.36	0.28	0.05	0.31	10.25	100.00
<b>All India</b>	<b>74.50</b>	<b>4.50</b>	<b>3.41</b>	<b>0.16</b>	<b>0.02</b>	<b>0.18</b>	<b>17.24</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	16	0	0	0	0	0	16
Andhra Pradesh	11207	1495	360	16	1	4	13084
Arunachal Pradesh	93	23	2	0	0	0	118
Assam	3586	302	134	1	1	0	4024
Bihar	2014	774	118	2	0	0	2908
Chandigarh	181	16	2	1	0	0	200
Chattishgarh	2748	96	30	1	0	0	2874
D&N Haveli	932	30	7	2	0	0	971
Daman & Diu	1099	18	0	1	0	0	1118
Delhi	2539	50	58	4	17	31	2699
Goa	582	28	14	0	1	1	626
Gujarat	18450	265	203	37	3	22	18980
Haryana	6575	175	76	21	0	8	6854
Himachal Pradesh	2129	47	38	18	0	2	2233
Jammu & Kashmir	838	14	85	0	0	0	938
Jharkhand	2039	142	255	10	0	3	2449
Karnataka	10224	295	175	7	2	46	10748
Kerala	5995	664	65	19	0	5	6748
Madhya Pradesh	3800	72	58	24	3	19	3975
Maharashtra	20059	548	343	40	13	91	21095
Manipur	163	9	9	0	0	0	181
Meghalaya	107	2	7	1	0	0	117
Nagaland	166	9	7	0	0	0	182
Odisha	2212	168	303	2	0	9	2694
Puducherry	502	35	5	0	0	4	545
Punjab	10377	178	118	29	0	3	10705
Rajasthan	7618	316	301	13	0	15	8263
Sikkim	62	1	2	0	0	4	69
Tamilnadu	27946	3078	447	37	4	103	31614
Telengana	7226	1120	4378	0	0	0	12725
Tripura	354	205	14	0	0	0	573
Uttar Pradesh	12537	120	151	62	0	24	12894
Uttrakhand	2520	18	8	7	1	2	2556
West Bengal	8067	248	226	27	5	30	8604
<b>All India</b>	<b>174964</b>	<b>10562</b>	<b>7998</b>	<b>380</b>	<b>50</b>	<b>425</b>	<b>194380</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 imputed 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	85.65	11.43	2.75	0.12	0.01	0.03	100.00
Arunachal Pradesh	78.81	19.49	1.69	0.00	0.00	0.00	100.00
Assam	89.12	7.50	3.33	0.02	0.02	0.00	100.00
Bihar	69.26	26.62	4.06	0.07	0.00	0.00	100.00
Chandigarh	90.50	8.00	1.00	0.50	0.00	0.00	100.00
Chattishgarh	95.62	3.34	1.04	0.03	0.00	0.00	100.00
D&N Haveli	95.98	3.09	0.72	0.21	0.00	0.00	100.00
Daman & Diu	98.30	1.61	0.00	0.09	0.00	0.00	100.00
Delhi	94.07	1.85	2.15	0.15	0.63	1.15	100.00
Goa	92.97	4.47	2.24	0.00	0.16	0.16	100.00
Gujarat	97.21	1.40	1.07	0.19	0.02	0.12	100.00
Haryana	95.93	2.55	1.11	0.31	0.00	0.12	100.00
Himachal Pradesh	95.34	2.10	1.70	0.81	0.00	0.09	100.00
Jammu & Kashmir	89.34	1.49	9.06	0.00	0.00	0.00	100.00
Jharkhand	83.26	5.80	10.41	0.41	0.00	0.12	100.00
Karnataka	95.12	2.74	1.63	0.07	0.02	0.43	100.00
Kerala	88.84	9.84	0.96	0.28	0.00	0.07	100.00
Madhya Pradesh	95.60	1.81	1.46	0.60	0.08	0.48	100.00
Maharashtra	95.09	2.60	1.63	0.19	0.06	0.43	100.00
Manipur	90.06	4.97	4.97	0.00	0.00	0.00	100.00
Meghalaya	91.45	1.71	5.98	0.85	0.00	0.00	100.00
Nagaland	91.21	4.95	3.85	0.00	0.00	0.00	100.00
Odisha	82.11	6.24	11.25	0.07	0.00	0.33	100.00
Puducherry	92.11	6.42	0.92	0.00	0.00	0.73	100.00
Punjab	96.94	1.66	1.10	0.27	0.00	0.03	100.00
Rajasthan	92.19	3.82	3.64	0.16	0.00	0.18	100.00
Sikkim	89.86	1.45	2.90	0.00	0.00	5.80	100.00
Tamilnadu	88.40	9.74	1.41	0.12	0.01	0.33	100.00
Telangana	56.79	8.80	34.40	0.00	0.00	0.00	100.00
Tripura	61.78	35.78	2.44	0.00	0.00	0.00	100.00
Uttar Pradesh	97.23	0.93	1.17	0.48	0.00	0.19	100.00
Uttrakhand	98.59	0.70	0.31	0.27	0.04	0.08	100.00
West Bengal	93.76	2.88	2.63	0.31	0.06	0.35	100.00
<b>All India</b>	<b>90.01</b>	<b>5.43</b>	<b>4.11</b>	<b>0.20</b>	<b>0.03</b>	<b>0.22</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 all-India level for the year 2016-17 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 2016-17, there have been 1,94,380 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 1.74 percent than that of last year. These factories together have a total stock of fixed capital worth ₹31,90,38,649 Lakhs and invested capital ₹42,96,25,490 Lakhs. These are higher by 13.55 and 11.50 percent, respectively compared to those estimated in ASI 2015-16. These factories have provided gainful employment to 1,49,111,89 persons showing an increase of 4.28 percent with respect to the preceding year and distributed ₹3,75,16,385 Lakhs as emoluments to employees, showing an increase of 10.42 percent in one year. Those factories have consumed inputs both industrial and non-industrial in nature, worth ₹58,97,46,374 Lakhs, produced ₹72,65,51,423 Lakhs, worth of goods and services valued at ex-factory prices and contributed ₹11,45,91,911 Lakhs by way of net value added by organized manufacturing sector to the national income. The input and output have shown growth of 5.52% and 5.87% respectively, the net value added grew by 6.85% in ASI 2016-17 as compared to those estimated as per 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 that 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 have 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 increase in prices. The survey results revealed that in 2016-17, a factory with an average investment of ₹1,641 Lakhs in fixed capital have provided gainful employment to 77 persons, produced goods and services at ex-factory prices worth ₹3,738 Lakhs and contributed ₹590 Lakhs by way of net value added by manufacture to the national income. However, taking an employee as a unit of measurement, the survey revealed that an employee, in the organized manufacturing sector during 2016-17 has, on an average, gave an output of ₹ 48,72,525 and contributed ₹ 7,68,496 to the national income by way of net value added by manufacture. The corresponding averages in the preceding year are respectively ₹ 47,98,946 and ₹ 7,50,005.

**3.2.3** The capital output ratio, which provides a measure of the fixed capital required to produce one unit of net value added, has increased to 2.78 in 2016-17 as compared to the previous year. The fixed capital required to produce one unit of gross output has also increased to 0.44. The level of efficiency, measured by the ratio of the net value added to gross output has remain fixed at 0.16 The GVA to fixed capital ratio has decreased to 0.43 from 0.45, whereas the output to input ratio has been constant at 1.23.

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

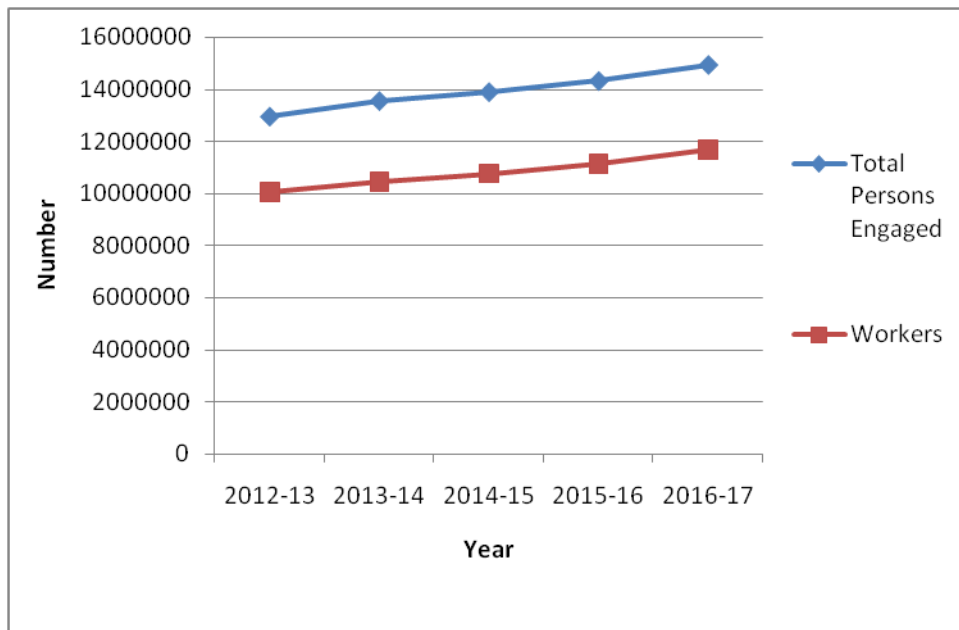


Figure 1 shows the number of workers and total persons engaged for last five years i.e. 2012-13 to 2016-17. The above figure is showing an upward trend for both workers and total persons engaged in the last five years. Moreover, the total persons engaged are slightly steeper than the workers. It implies 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**

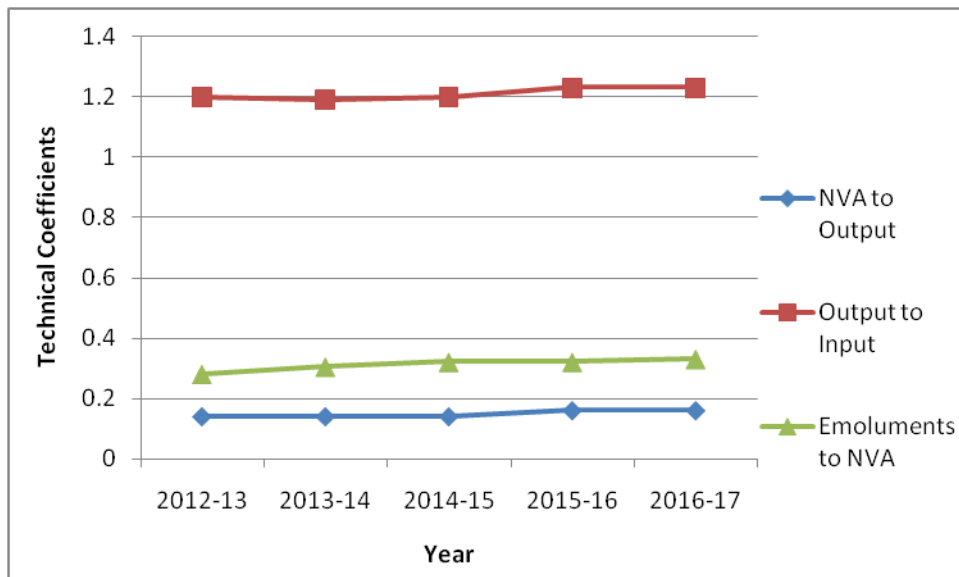


Figure 2 presents some technical coefficients for last five years i.e. 2012-13 to 2016-17. Here the technical coefficients are estimated on the basis of NVA to output, output to input and emoluments to NVA. From the above figure it is found that output to input ratio, indicating the industrial efficiency has almost been static over 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**

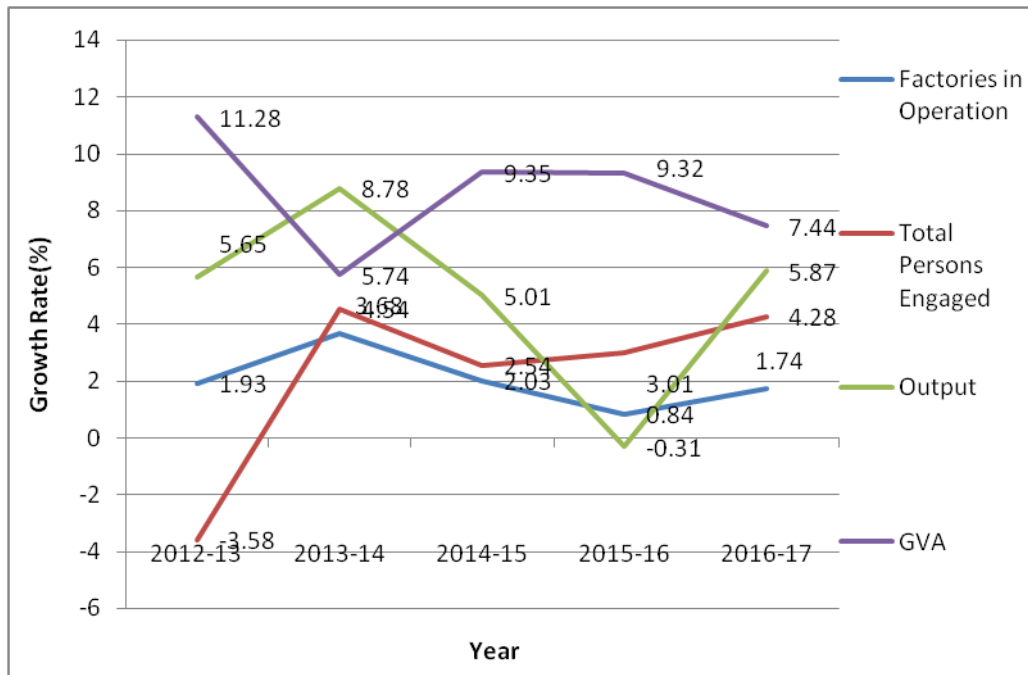


Figure 3 depicts the annual growth rates for Factories in Operation, Total Persons Engaged, Output and GVA for the last five years. The growth rate in respect of number of operating factories, Total Persons Engaged and Output have increased in 2016-17 as compared to last year in the organized factory sector. However, decrease in growth rate is observed in case of GVA in 2016-17.

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

<b>Characteristics</b>	<b>Unit</b>	<b>ASI Year</b>				
		<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>
Factories in Operation	Number	179102	185690	189468	191062	194380
Fixed Capital	₹ Lakhs	218026022	237371903	247445461	280964722	319038649
Invested Capital	₹ Lakhs	314411215	338455535	351396431	385309984	429625490
Workers	Number	10051626	10444404	10755288	11136133	11662947
Total Persons Engaged	Number	12950025	13538114	13881386	14299710	14911189
Wages to Worker	₹ Lakhs	11089620	12649644	14048488	15600116	17353716
Total Emoluments	₹ Lakhs	23805727	27241503	30741306	33975074	37516385
Input	₹ Lakhs	501866586	549013952	571910956	558907407	589746374
Output	₹ Lakhs	602594536	655525116	688381205	686235375	726551423
GVA	₹ Lakhs	100727950	106511163	116470249	127327968	136805049
Depreciation	₹ Lakhs	15533081	16976977	18954077	20079459	22213138
NVA	₹ Lakhs	85194869	89534187	97516172	107248509	114591911
Rent Paid for Fixed Assets	₹ Lakhs	1642164	1527272	1709361	1774760	1964321
Interest Paid	₹ Lakhs	13807327	15485061	17286008	18213736	18940173
Income	₹ Lakhs	71928627	75152048	81228119	90165276	97221421
Profit	₹ Lakhs	44426292	43956552	46028299	51319338	53935285

**Statement 3B: Observed Growth Rate**

<b>Characteristics</b>	<b>Percentage Growth</b>			
	<b>2013-14 over 2012-13</b>	<b>2014-15 over 2013-14</b>	<b>2015-16 over 2014-15</b>	<b>2016-17 over 2015-16</b>
Factories in Operation	3.68	2.03	0.84	1.74
Fixed Capital	8.87	4.24	13.55	13.55
Invested Capital	7.65	3.82	9.65	11.50
Workers	3.91	2.98	3.54	4.73
Total Persons Engaged	4.54	2.54	3.01	4.28
Wages to Worker	14.07	11.06	11.04	11.24
Total Emoluments	14.43	12.85	10.52	10.42
Input	9.39	4.17	-2.27	5.52
Output	8.78	5.01	-0.31	5.87
GVA	5.74	9.35	9.32	7.44
Depreciation	9.30	11.65	5.94	10.63
NVA	5.09	8.92	9.98	6.85
Rent Paid for Fixed Assets	-7.00	11.92	3.83	10.68
Interest Paid	12.15	11.63	5.37	3.99
Income	4.48	8.09	11.00	7.83
Profit	-1.06	4.71	11.50	5.10

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

<b>Structural Ratios</b>	<b>Unit</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>
Fixed Capital per Factory in Operation	₹ Lakhs	1217	1278	1306	1471	1641
Total Persons Engaged per Factory in Operation	Number	72	73	73	75	77
Workers per Factory in Operation	Number	56	56	57	58	60
Gross Output per Factory in Operation	₹ Lakhs	3365	3530	3633	3592	3738
Net Value Added per Factory in Operation	₹ Lakhs	476	482	515	561	590
Output per Person Engaged	₹	4653231	4842071	4959024	4798946	4872525
Gross Value Added per Person Engaged	₹	777821	786750	839039	890423	917466
Net Value Added per Person Engaged	₹	657874	661349	702496	750005	768496
Wages per Worker	₹	110327	121114	130619	140086	148794

<b>Technical Coefficients</b>						
Fixed Capital to Net Value Added		2.56	2.65	2.54	2.62	2.78
Fixed Capital to Output		0.36	0.36	0.36	0.41	0.44
Net Value Added to Output		0.14	0.14	0.14	0.16	0.16
Gross Value Added to Fixed Capital		0.46	0.45	0.47	0.45	0.43
Output to Input		1.20	1.19	1.20	1.23	1.23
Profit to Output		0.07	0.07	0.07	0.07	0.07
Contract Workers to Total Workers		0.34	0.34	0.35	0.36	0.36

## 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 (11.36%), Textiles (10.46%), Wearing Apparel (7.63%) , Other Non-Metallic Mineral Products (7.24%) and Motor Vehicles, Trailers and Semi-Trailers (6.62%). Figures within the bracket denote the percentage share in total number of persons engaged by the industry. Thus, above five industries engaged about 43% of the total manpower in the factory sector. Figure 4 shows 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 Coke and Refined Petroleum Products, Chemicals and Chemical Products, Basic Metals, Motor Vehicles ,Trailers & Semi-Trailers , Food Products and Pharmaceuticals, Medicinal Chemical & Botanical Products . They contributed a total of 53.35% of aggregate GVA with individual shares of 12.87%, 9.95%, 8.12%, 7.68%, 7.60% and 7.13% respectively. The above six industries also accounted for 57.70% of aggregate fixed capital. Figure 5 shows relative position of major 10 industries in respect of their percentage shares in aggregate GVA.

### 4.2 Structural Ratios

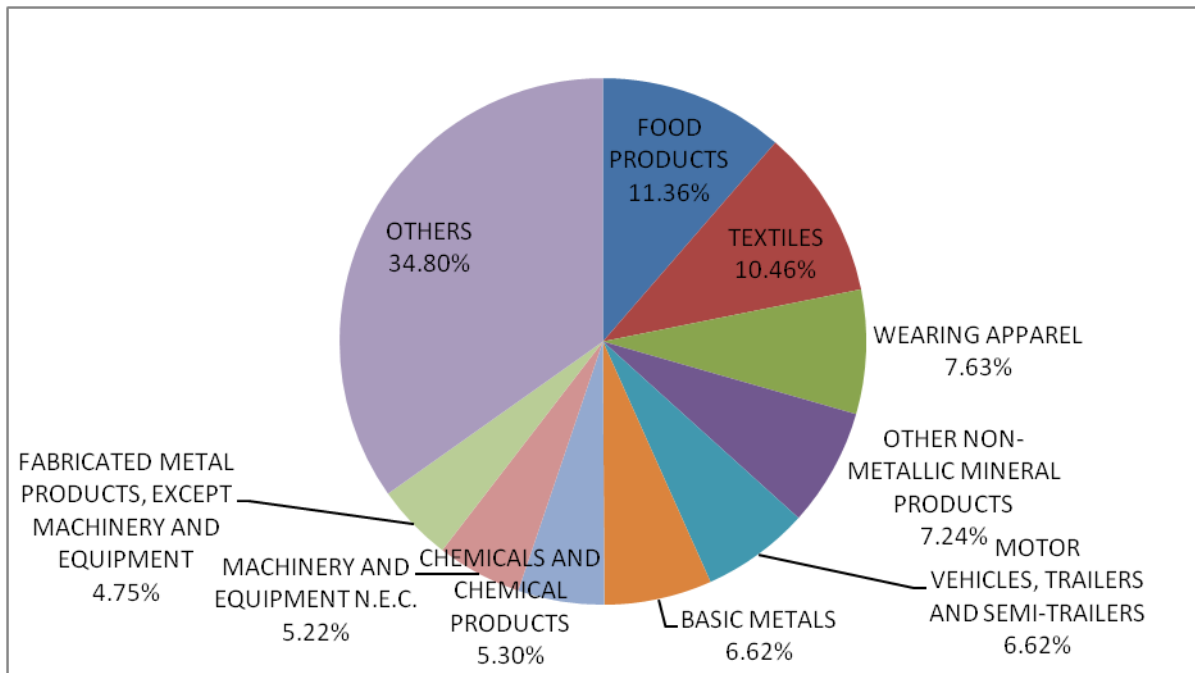
**4.2.1** Statement 6 gives the structural ratios by NIC 2-digit. The minimum, maximum and the average value along with the names of the corresponding industry have been summarized for some of these structural ratios below in Table 2.



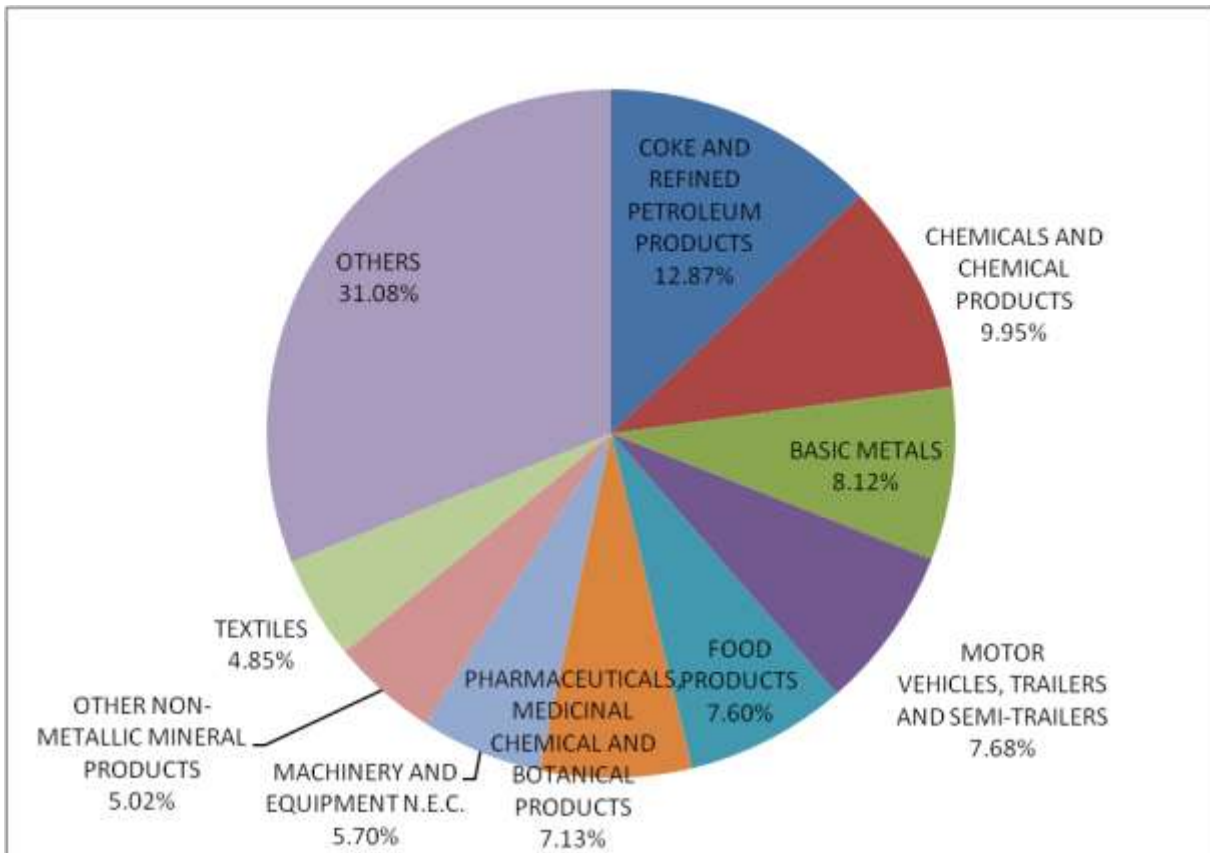
**Table 2 : Structural Ratios: Minimum, Maximum and Average Values: All India**

Structural Ratio	Minimum Value	Maximum Value	Average Value
Fixed Capital per Factory Operation in (₹Lakhs)	158 (NIC 01 - COTTON GINNING, CLEANING AND BAILING (01632); SEED PROCESSING FOR PROPAGATION (01640))	27012 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	1641
Gross Output per Factory Operation in (₹Lakhs)	585 (NIC 16 - WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS)	57615 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	3738
Net Value Added per Factory in Operation (₹Lakhs)	99 (NIC 16 - WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS)	10567 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	590
Workers per Factory Operation (Number)	16 (NIC 01 - COTTON GINNING, CLEANING AND BAILING (01632); SEED PROCESSING FOR PROPAGATION (01640))	155 (NIC12:TOBACCO PRODUCTS)	60
Total Engaged Persons per Factory Operation (Number)	23 (NIC 01 - COTTON GINNING, CLEANING AND BAILING (01632); SEED PROCESSING FOR PROPAGATION (01640))	191 (NIC29: MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS )	77
Net Value Added per Engaged Person (₹)	252956 (NIC 14- WEARING APPAREL)	10406772 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	768496
Wages per Worker (₹)	45038 (NIC12:TOBACCO PRODUCTS)	340795 (NIC 19 - COKE AND REFINED PETROLEUM PRODUCTS)	148794

**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

Section 4

(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
19	COKE AND REFINED PETROLEUM PRODUCTS	1521	41085725	-7926153	50077459	30460811	154449	70020066	87632800	17612735	16073156	12.87
20	CHEMICALS AND CHEMICAL PRODUCTS	10314	28597417	6850271	36255042	29721223	790263	44687712	58300834	13613122	11970904	9.95
24	BASIC METALS	9621	65520716	-1173383	80070003	61070075	986991	72652392	83762775	11110383	7847214	8.12
29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	5179	18506612	3373905	24072025	18938676	987191	45751248	56255848	10504600	8231878	7.68
10	FOOD PRODUCTS	32612	19396227	8737622	37487454	15384467	1693736	91994535	102388166	10393631	8797727	7.60
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL	4152	10984295	7037118	16615389	8762194	679891	17441361	27195853	9754492	8756082	7.13
28	MACHINERY AND EQUIPMENT N.E.C.	10188	8893265	6939972	14596101	7214499	778624	24334830	32135557	7800727	6882876	5.70
23	OTHER NON-METALLIC MINERAL PRODUCTS	23588	19657780	12298354	24300667	20243649	1078918	18367061	25229241	6862180	5280090	5.02
13	TEXTILES	13645	15574407	3255270	22375358	18075084	1560102	32660145	39294883	6634738	5237865	4.85
	OTHER INDUSTRIES	10076	42564915	-1670873	45311574	37921616	465425	22479056	28797816	6318759	3984270	4.62
22	RUBBER AND PLASTICS PRODUCTS	11076	9083942	5092726	12833861	9475265	700503	20728683	26226547	5497864	4568081	4.02
27	ELECTRICAL EQUIPMENT	6380	5749889	4437706	10290479	5008620	540432	22673424	27860902	5187478	4578531	3.79
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND	14244	7011545	4431981	11106710	5286501	708827	16259915	20402267	4142352	3507782	3.03
30	OTHER TRANSPORT EQUIPMENT	1928	4854553	428339	6397040	4164727	316391	12702956	16037915	3334959	2938397	2.44
26	COMPUTER, ELECTRONIC AND OPTICAL PRODUCTS	1893	2102498	2653210	4386207	2503049	224336	13270690	16490030	3219339	2954395	2.35
14	WEARING APPAREL	7394	2799418	1424222	5273527	1323784	1137021	9705434	12838456	3133021	2876159	2.29
32	OTHER MANUFACTURING	2556	1473028	3305335	5028205	1172572	352020	18123906	20331934	2208028	2016088	1.61
11	BEVERAGES	2097	3208320	820991	4282014	3004996	160115	5364694	7110789	1746095	1445402	1.28
12	TOBACCO PRODUCTS	2901	717842	727320	1515889	675724	468398	2700062	4404318	1704257	1631054	1.25
17	PAPER AND PAPER PRODUCTS	5683	5769824	581980	7339127	5621827	253423	8162190	9837344	1675155	1261676	1.22
15	LEATHER AND RELATED PRODUCTS	3659	1154598	692198	2262543	710842	392808	4604808	5756687	1151879	1021001	0.84
18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	3593	1565622	495335	2104609	1622442	161406	2766587	3910663	1144076	961382	0.84
16	WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT	4018	639270	506683	1233036	460431	92488	1887446	2350437	462990	397347	0.34
01	FURNITURE; ARTICLES OF STRAW AND PLAING MATERIALS											
	COTTON GINNING, CLEANING AND BAILING (01632);	3313	522476	1239303	1784819	166887	75268	6965905	7412237	446332	387623	0.33
	SEED PROCESSING FOR PROPAGATION (01640)											
31	FURNITURE	1432	484854	911329	951953	255318	70189	1547605	1868546	320941	273003	0.23
33	REPAIR AND INSTALLATION OF MACHINERY AND EQUIPMENT	555	357925	201409	446002	133959	29581	502856	789727	286871	252932	0.21
58	PUBLISHING ACTIVITIES	244	335969	-77273	410809	366617	24020	434901	694966	260065	223995	0.19
08	SALT PRODUCTION BY EVAPORATION OF SEA WATER OR OTHER	118	185549	532234	251073	259572	12930	234893	418382	183490	165871	0.13
	SALINE WATERS (08932)											
38	WASTE COLLECTION, TREATMENT AND DISPOSAL ACTIVITIES;	401	240167	181158	566515	196177	15444	721014	815504	94490	69134	0.07
	MATERIALS RECOVERY											
	<b>ALL INDUSTRIES</b>	<b>194380</b>	<b>319038649</b>	<b>66308287</b>	<b>429625490</b>	<b>290201604</b>	<b>14911189</b>	<b>589746374</b>	<b>726551423</b>	<b>136805049</b>	<b>114591911</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
19	COKE AND REFINED PETROLEUM PRODUCTS	0.78	12.88	-1.95	11.66	10.50	1.04	11.87	12.06	12.87	14.03
20	CHEMICALS AND CHEMICAL PRODUCTS	5.31	8.96	10.33	8.44	10.24	5.30	7.58	8.02	9.95	10.45
24	BASIC METALS	4.95	20.54	-1.77	18.64	21.04	6.62	12.32	11.53	8.12	6.85
29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	2.66	5.80	5.09	5.60	6.53	6.62	7.76	7.74	7.68	7.18
10	FOOD PRODUCTS	16.78	6.08	13.18	8.73	5.30	11.36	15.60	14.09	7.60	7.68
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	2.14	3.44	10.61	3.87	3.02	4.56	2.96	3.74	7.13	7.64
28	MACHINERY AND EQUIPMENT N.E.C.	5.24	2.79	10.47	3.40	2.49	5.22	4.13	4.42	5.70	6.01
23	OTHER NON-METALLIC MINERAL PRODUCTS	12.13	6.16	18.55	5.66	6.98	7.24	3.11	3.47	5.02	4.61
13	TEXTILES	7.02	4.88	4.91	5.21	6.23	10.46	5.54	5.41	4.85	4.57
	OTHER INDUSTRIES	5.18	13.34	-2.52	10.55	13.07	3.12	3.81	3.96	4.62	3.48
22	RUBBER AND PLASTICS PRODUCTS	5.70	2.85	7.68	2.99	3.27	4.70	3.51	3.61	4.02	3.99
27	ELECTRICAL EQUIPMENT	3.28	1.80	6.69	2.40	1.73	3.62	3.84	3.83	3.79	4.00
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	7.33	2.20	6.68	2.59	1.82	4.75	2.76	2.81	3.03	3.06
30	OTHER TRANSPORT EQUIPMENT	0.99	1.52	0.65	1.49	1.44	2.12	2.15	2.21	2.44	2.56
26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	0.97	0.66	4.00	1.02	0.86	1.50	2.25	2.27	2.35	2.58
14	WEARING APPAREL	3.80	0.88	2.15	1.23	0.46	7.63	1.65	1.77	2.29	2.51
32	OTHER MANUFACTURING	1.31	0.46	4.98	1.17	0.40	2.36	3.07	2.80	1.61	1.76
11	BEVERAGES	1.08	1.01	1.24	1.00	1.04	1.07	0.91	0.98	1.28	1.26
12	TOBACCO PRODUCTS	1.49	0.23	1.10	0.35	0.23	3.14	0.46	0.61	1.25	1.42
17	PAPER AND PAPER PRODUCTS	2.92	1.81	0.88	1.71	1.94	1.70	1.38	1.35	1.22	1.10
15	LEATHER AND RELATED PRODUCTS	1.88	0.36	1.04	0.53	0.24	2.63	0.78	0.79	0.84	0.89
18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	1.85	0.49	0.75	0.49	0.56	1.08	0.47	0.54	0.84	0.84
16	WOOD AND PRODUCTS OF WOOD AND CORK,EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAINTING MATERIALS	2.07	0.20	0.76	0.29	0.16	0.62	0.32	0.32	0.34	0.35
01	COTTON GINNING,CLEANING AND BAILING (01632) ;	1.70	0.16	1.87	0.42	0.06	0.50	1.18	1.02	0.33	0.34
31	FURNITURE	0.74	0.15	1.37	0.22	0.09	0.47	0.26	0.26	0.23	0.24
33	REPAIR AND INSTALLATION OF MACHINERY AND EQUIPMENT	0.29	0.11	0.30	0.10	0.05	0.20	0.09	0.11	0.21	0.22
58	PUBLISHING ACTIVITIES	0.13	0.11	-0.12	0.10	0.13	0.16	0.07	0.10	0.19	0.20
08	SALT PRODUCTION BY EVAPORATION OF SEA WATER OR OTHER SALINE WATERS (08932)	0.06	0.06	0.80	0.06	0.09	0.09	0.04	0.06	0.13	0.14
38	WASTE COLLECTION,TREATMENT AND DISPOSAL ACTIVITIES; MATERIALS RECOVERY	0.21	0.08	0.27	0.13	0.07	0.10	0.12	0.11	0.07	0.06
	<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)	158	23	16	2237	117	9847793	592990	514990	92160
08	SALT PRODUCTION BY EVAPORATION OF SEA WATER OR OTHER SALINE WATERS (08932)	1572	110	94	3546	1406	3235746	1419103	1282838	105140
10	FOOD PRODUCTS	595	52	40	3140	270	6045108	613651	519427	117352
11	BEVERAGES	1530	76	59	3391	689	4441051	1090526	902727	150951
12	TOBACCO PRODUCTS	247	161	155	1518	562	940294	363848	348220	45038
13	TEXTILES	1141	114	98	2880	384	2518738	425276	335739	126784
14	WEARING APPAREL	379	154	133	1736	389	1129131	275546	252956	117425
15	LEATHER AND RELATED PRODUCTS	316	107	92	1573	279	1465522	293242	259924	115835
16	WOOD AND PRODUCTS OF WOOD AND CORK,EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS	159	23	17	585	99	2541343	500595	429620	106239
17	PAPER AND PAPER PRODUCTS	1015	45	35	1731	222	3881788	661011	497854	150714
18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	436	45	30	1088	268	2422873	708819	595630	171164
19	COKE AND REFINED PETROLEUM PRODUCTS	27012	102	79	57615	10567	56738988	11403593	10406772	340795
20	CHEMICALS AND CHEMICAL PRODUCTS	2773	77	57	5653	1161	7377396	1722607	1514800	169722
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	2646	164	104	6550	2109	4000031	1434714	1287866	183546
22	RUBBER AND PLASTICS PRODUCTS	820	63	49	2368	412	3743959	784845	652114	151258
23	OTHER NON-METALLIC MINERAL PRODUCTS	833	46	37	1070	224	2338384	636024	489388	104742
24	BASIC METALS	6810	103	80	8706	816	8486681	1125682	795064	222040
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	492	50	39	1432	246	2878314	584395	494871	154217
26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	1111	119	82	8711	1561	7350595	1435052	1316951	184637
27	ELECTRICAL EQUIPMENT	901	85	63	4367	718	5155302	959876	847198	176909
28	MACHINERY AND EQUIPMENT N.E.C.	873	76	53	3154	676	4127224	1001861	883979	191978
29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	3573	191	148	10862	1589	5698578	1064090	833869	192575
30	OTHER TRANSPORT EQUIPMENT	2518	164	128	8318	1524	5069017	1054063	928723	182856
31	FURNITURE	339	49	35	1305	191	2662164	457253	388954	150880
32	OTHER MANUFACTURING	576	138	109	7955	789	5775789	627245	572720	153709
33	REPAIR AND INSTALLATION OF MACHINERY AND EQUIPMENT	645	53	40	1423	456	2669710	969781	855049	284200
38	WASTE COLLECTION,TREATMENT AND DISPOSAL ACTIVITIES; MATERIALS RECOVERY	599	39	30	2034	172	5280394	611823	447643	133736
58	PUBLISHING ACTIVITIES	1377	98	47	2848	918	2893281	1082702	932535	225751
	OTHER INDUSTRIES	4224	46	31	2858	395	6187424	1357632	856050	156824
	<b>All India</b>	<b>1641</b>	<b>77</b>	<b>60</b>	<b>3738</b>	<b>590</b>	<b>4872525</b>	<b>917466</b>	<b>768496</b>	<b>148794</b>

## 5 Principal Characteristics - State/UT Level

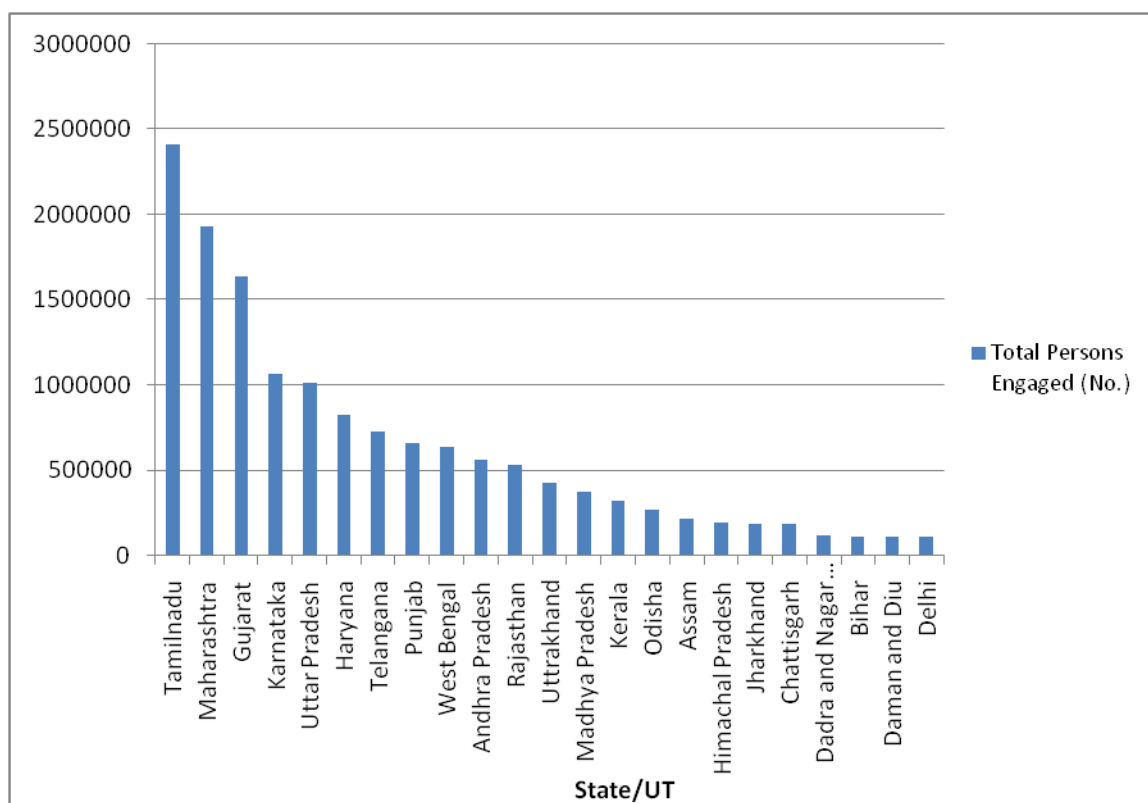
### 5.1 Principal Aggregates

**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 2016-17, the number of operating factories is reported highest in Tamilnadu (16.26%) followed by Maharashtra (10.85%). Gujarat's share is the highest in respect of aggregates gross value of plant and machinery (19.63%), fixed capital (19.84%), invested capital (18.96%), input (17.35%) and output(16.82%). Maharashtra occupies the first position by virtue of its contribution to working capital (30.55%), total emoluments (17.61%), gross value added (17.70%) and net value added (18.22%). In terms of contribution to net value added, Maharashtra is followed by Gujarat (14.44%), Tamilnadu (10.29%), Uttar Pradesh (7.90%) and Karnataka (7.22%) in that order.

### 5.2 Structural Ratios

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

**Figure 6: Total Number of Persons Engaged in the Factory Sector by State/UT****Table 3: Structural Ratios: Minimum, Maximum and Average Values: All India**

Structural Ratio	Minimum Value	Maximum Value	Average Value
Fixed Capital per Factory in Operation (₹Lakhs)	81 (Tripura)	12547 (Odisha)	1641
Gross Output per Factory in Operation (₹Lakhs)	201 (Manipur)	24307 (Sikkim)	3738
Net Value Added per Factory in Operation (₹Lakhs)	19 (A & N Islands )	13994 (Sikkim)	590
Workers per Factory in Operation (Number)	21 (A & N Islands)	194 (Sikkim)	60
Total Persons Engaged per Factory in Operation (Number)	26 (A & N Islands)	250 (Sikkim)	77
Net Value Added per Person Engaged (₹)	70309 (A & N Islands)	5603424 (Sikkim)	768496
Wages per Worker (₹)	38888 (Tripura)	254381 (Jharkhand)	148794

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	21095	33798216	20255727	50280256	35179526	1926154	6608311	83281871	107497036	24215165	20880019	17.70
Gujarat	18980	63304138	2662562	81454084	56966667	1634566	4321111	102299006	122220075	19921069	16543326	14.56
Tamilnadu	31614	28244128	8028146	40255907	25367027	2408282	5275843	62248020	76552431	14304411	11788606	10.46
Uttar Pradesh	12894	13270699	4064610	20813332	13114427	1012882	2439831	39451590	49552268	10100678	9049549	7.38
Karnataka	10748	18122114	5900889	25187858	18065113	1065021	3119727	40435530	50164690	9729160	8276614	7.11
Haryana	6854	11632485	3151042	18035144	10736515	826994	2268231	42142682	50038700	7896018	6690746	5.77
Uttrakhand	2556	5870612	1788076	8123750	5623468	425616	930382	15548193	21013696	5465503	4951666	4.00
Rajasthan	8263	10080805	3612465	14013500	10150889	533019	1311771	22032111	27054565	5022453	4166552	3.67
Telangana	12725	6931972	3535477	10774282	6164683	724612	1349789	16161720	20381796	4220077	3551504	3.08
Madhya Pradesh	3975	14932012	778730	17976081	14250890	372587	907865	16499661	20467293	3967632	3050925	2.90
West Bengal	8604	11383728	2540119	15946367	10998452	640678	1374274	25114224	28823593	3709369	2904543	2.71
Andhra Pradesh	13084	18632079	-198423	23844352	15449799	564017	1253334	23042788	26583434	3540646	2611022	2.59
Himachal Pradesh	2233	4304421	711070	5552878	4288044	197826	556690	7647226	10859355	3212129	2832143	2.35
Odisha	2694	33800626	-2300922	36978340	26868857	272508	793763	12025645	15109219	3083574	1847663	2.25
Punjab	10705	4128112	3384773	7823137	4445803	656255	1106470	16007202	18921535	2914334	2489373	2.13
Jharkhand	2449	10328969	428760	12729831	9657436	189116	705670	9628571	12322755	2694184	2120637	1.97
Kerala	6748	4548354	1268404	6258249	2617241	319568	689059	12082529	14318717	2236189	1991866	1.63
Chattisgarh	2874	12513740	997278	14293149	10141146	187374	577798	9159242	10866893	1707652	1138267	1.25
Goa	626	996946	1112027	1605942	1053279	64324	245818	2893197	4401225	1508029	1367219	1.10
Assam	4024	2802255	761596	3736145	1535394	218002	266420	4806942	6293606	1486663	1282165	1.09
Dadra and Nagar Haveli	971	3003602	772494	4206543	2903147	123227	308201	7723773	8845212	1121439	870751	0.82
Sikkim	69	710069	137840	868943	198909	17232	72684	649298	1677216	1027918	965582	0.75
Daman and Diu	1118	1197057	954533	1767329	882930	113925	264022	3651458	4464842	813383	694636	0.59
Jammu and Kashmir	938	1003913	515759	1391867	905116	75307	134412	2252020	3034727	782707	695502	0.57
Delhi	2699	602994	890604	1733603	342376	111370	284497	6030969	6715380	684411	620589	0.50
Bihar	2908	1804252	207878	2372084	1087513	116232	148320	4127896	4769275	641380	536902	0.47
Puducherry	545	479119	267007	737296	612889	46728	115122	1717641	2264375	546734	496782	0.40
Chandigarh	200	129447	37008	223392	98809	10348	36167	504297	588511	84214	73922	0.06
Meghalaya	117	377159	-17161	480468	418165	12367	24182	312606	395194	82588	28578	0.06
Tripura	573	46357	7980	69609	41501	27258	13129	98994	137953	38959	33840	0.03
Arunachal Pradesh	118	19982	31014	35726	15028	3347	3864	91688	114492	22804	20203	0.02
Nagaland	182	21422	18316	33164	10534	5895	3437	37749	51746	13997	12540	0.01
Manipur	181	15327	4271	20218	3693	8133	5462	27305	36295	8990	7383	0.01
A&N Islands	16	1536	-1664	2666	6338	421	731	12730	13322	592	296	0.00
<b>All India</b>	<b>194380</b>	<b>319038649</b>	<b>66308287</b>	<b>429625490</b>	<b>290201604</b>	<b>14911189</b>	<b>37516385</b>	<b>589746374</b>	<b>726551423</b>	<b>136805049</b>	<b>114591911</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	10.85	10.59	30.55	11.70	12.12	12.92	17.61	14.12	14.80	17.70	18.22
Gujarat	9.76	19.84	4.02	18.96	19.63	10.96	11.52	17.35	16.82	14.56	14.44
Tamilnadu	16.26	8.85	12.11	9.37	8.74	16.15	14.06	10.56	10.54	10.46	10.29
Uttar Pradesh	6.63	4.16	6.13	4.84	4.52	6.79	6.50	6.69	6.82	7.38	7.90
Karnataka	5.53	5.68	8.90	5.86	6.23	7.14	8.32	6.86	6.90	7.11	7.22
Haryana	3.53	3.65	4.75	4.20	3.70	5.55	6.05	7.15	6.89	5.77	5.84
Uttrakhand	1.31	1.84	2.70	1.89	1.94	2.85	2.48	2.64	2.89	4.00	4.32
Rajasthan	4.25	3.16	5.45	3.26	3.50	3.57	3.50	3.74	3.72	3.67	3.64
Telangana	6.55	2.17	5.33	2.51	2.12	4.86	3.60	2.74	2.81	3.08	3.10
Madhya Pradesh	2.04	4.68	1.17	4.18	4.91	2.50	2.42	2.80	2.82	2.90	2.66
West Bengal	4.43	3.57	3.83	3.71	3.79	4.30	3.66	4.26	3.97	2.71	2.53
Andhra Pradesh	6.73	5.84	-0.30	5.55	5.32	3.78	3.34	3.91	3.66	2.59	2.28
Himachal Pradesh	1.15	1.35	1.07	1.29	1.48	1.33	1.48	1.30	1.49	2.35	2.47
Odisha	1.39	10.59	-3.47	8.61	9.26	1.83	2.12	2.04	2.08	2.25	1.61
Punjab	5.51	1.29	5.10	1.82	1.53	4.40	2.95	2.71	2.60	2.13	2.17
Jharkhand	1.26	3.24	0.65	2.96	3.33	1.27	1.88	1.63	1.70	1.97	1.85
Kerala	3.47	1.43	1.91	1.46	0.90	2.14	1.84	2.05	1.97	1.63	1.74
Chattisgarh	1.48	3.92	1.50	3.33	3.49	1.26	1.54	1.55	1.50	1.25	0.99
Goa	0.32	0.31	1.68	0.37	0.36	0.43	0.66	0.49	0.61	1.10	1.19
Assam	2.07	0.88	1.15	0.87	0.53	1.46	0.71	0.82	0.87	1.09	1.12
Dadra and Nagar Haveli	0.50	0.94	1.17	0.98	1.00	0.83	0.82	1.31	1.22	0.82	0.76
Sikkim	0.04	0.22	0.21	0.20	0.07	0.12	0.19	0.11	0.23	0.75	0.84
Daman and Diu	0.58	0.38	1.44	0.41	0.30	0.76	0.70	0.62	0.61	0.59	0.61
Jammu and Kashmir	0.48	0.31	0.78	0.32	0.31	0.51	0.36	0.38	0.42	0.57	0.61
Delhi	1.39	0.19	1.34	0.40	0.12	0.75	0.76	1.02	0.92	0.50	0.54
Bihar	1.50	0.57	0.31	0.55	0.37	0.78	0.40	0.70	0.66	0.47	0.47
Puducherry	0.28	0.15	0.40	0.17	0.21	0.31	0.31	0.29	0.31	0.40	0.43
Chandigarh	0.10	0.04	0.06	0.05	0.03	0.07	0.10	0.09	0.08	0.06	0.06
Meghalaya	0.06	0.12	-0.03	0.11	0.14	0.08	0.06	0.05	0.05	0.06	0.02
Tripura	0.29	0.01	0.01	0.02	0.01	0.18	0.03	0.02	0.02	0.03	0.03
Arunachal Pradesh	0.06	0.01	0.05	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.02
Nagaland	0.09	0.01	0.03	0.01	0.00	0.04	0.01	0.01	0.01	0.01	0.01
Manipur	0.09	0.00	0.01	0.00	0.00	0.05	0.01	0.00	0.00	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	19601	32031716	19839847	47899267	33171095	1861718	6463393	79490018	103231337	23741319	20772135	18.28
Gujarat	17661	57814577	1711319	75300036	51085924	1581039	4207849	96304664	115210118	18905454	15795545	14.56
Tamilnadu	29626	22343043	8173045	34052276	21466573	2333405	5114600	59822205	73324498	13502293	11191838	10.40
Uttar Pradesh	11604	10803883	3558018	18164743	10999449	969806	2359267	37813181	47417571	9604389	8648248	7.40
Karnataka	9638	16897248	5299877	23721998	16688652	1016685	3012940	38707850	47920621	9212771	7850959	7.09
Haryana	6584	11041348	3069170	17272928	10268491	808826	2225133	41093948	48842919	7748972	6579391	5.97
Uttarakhand	2493	4275351	1687358	6502053	4167404	420028	899806	15245529	20447193	5201663	4784011	4.01
Rajasthan	7876	8033405	3503909	11768274	8008180	512299	1266170	20587760	25215402	4627643	3901981	3.56
Telangana	11685	6122408	3873477	9491095	5496520	684943	1267832	13393228	17293664	3900437	3307456	3.00
West Bengal	8055	9728578	2475255	14140060	9223567	620647	1323807	24430040	27853558	3423518	2750875	2.64
Andhra Pradesh	11830	16254962	573400	21279257	13423496	534923	1208659	22196889	25591617	3394728	2603527	2.61
Madhya Pradesh	3617	8059528	993391	10878410	8338302	351106	853759	14925281	18176128	3250847	2692687	2.50
Odisha	2565	30856133	-1683700	33958132	24117507	259520	766465	11075097	13972622	2897525	1778183	2.23
Punjab	10349	3987166	3335674	7556235	4389893	638584	1073156	14800844	17626697	2825853	2411803	2.18
Himachal Pradesh	2134	2488779	1118031	3722928	2517168	192228	536208	7446286	10230889	2784603	2495846	2.14
Jharkhand	2292	9313346	326788	11629987	8574594	180724	682743	9060126	11552841	2492716	1969368	1.92
Kerala	6056	4353685	1233174	6008729	2482924	293373	642179	11696609	13845884	2149275	1919586	1.66
Chattisgarh	2743	9707621	1516986	11434984	8097514	180150	558766	8741521	10394313	1652792	1154518	1.27
Goa	590	983142	1102778	1586415	1041531	61981	241607	2831861	4330023	1498163	1358533	1.15
Assam	3902	2748507	741791	3658083	1504295	213453	259785	4599527	6063923	1464395	1264808	1.13
Dadra and Nagar Haveli	971	3003602	772494	4206543	2903147	123227	308201	7723773	8845212	1121439	870751	0.86
Sikkim	66	709300	137775	868172	198694	17163	72586	649197	1676857	1027661	965364	0.79
Daman and Diu	1118	1197057	954533	1767329	882930	113925	264022	3651458	4464842	813383	694636	0.63
Bihar	2656	1032440	245705	1587129	872042	111010	140628	4036282	4662170	625888	529406	0.48
Jammu and Kashmir	907	482136	444823	857452	486125	71071	118276	2090079	2712601	622522	566495	0.48
Delhi	2431	482686	850437	1508293	278474	95925	245414	5219591	5828979	609388	558453	0.47
Puducherry	537	476921	266238	734548	612509	46309	114087	1706142	2251519	545376	495560	0.42
Meghalaya	110	355297	-19314	453634	391457	11964	23439	302269	379350	77080	24992	0.06
Chandigarh	164	82823	46688	116648	93683	7548	26071	181143	232631	51488	44810	0.04
Tripura	550	44325	7290	66451	41390	26920	12778	96836	134978	38141	33202	0.03
Arunachal Pradesh	118	19982	31014	35726	15028	3347	3864	91688	114492	22804	20203	0.02
Nagaland	160	19375	15594	29895	10464	5549	3083	26520	39465	12946	11629	0.01
Manipur	175	14677	4576	19294	3641	7930	5244	26731	35444	8713	7134	0.01
A&N Islands	10	662	182	1023	870	241	415	2348	2632	284	217	0.00
<b>All India</b>	<b>180872</b>	<b>275765708</b>	<b>66207624</b>	<b>382278024</b>	<b>251853529</b>	<b>14357567</b>	<b>36302232</b>	<b>560066520</b>	<b>689922988</b>	<b>129856467</b>	<b>110054148</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	10.84	11.62	29.97	12.53	13.17	12.97	17.80	14.19	14.96	18.28	18.87
Gujarat	9.76	20.97	2.58	19.70	20.28	11.01	11.59	17.20	16.70	14.56	14.35
Tamilnadu	16.38	8.10	12.34	8.91	8.52	16.25	14.09	10.68	10.63	10.40	10.17
Uttar Pradesh	6.42	3.92	5.37	4.75	4.37	6.75	6.50	6.75	6.87	7.40	7.86
Karnataka	5.33	6.13	8.00	6.21	6.63	7.08	8.30	6.91	6.95	7.09	7.13
Haryana	3.64	4.00	4.64	4.52	4.08	5.63	6.13	7.34	7.08	5.97	5.98
Uttrakhand	1.38	1.55	2.55	1.70	1.65	2.93	2.48	2.72	2.96	4.01	4.35
Rajasthan	4.35	2.91	5.29	3.08	3.18	3.57	3.49	3.68	3.65	3.56	3.55
Telangana	6.46	2.22	5.85	2.48	2.18	4.77	3.49	2.39	2.51	3.00	3.01
West Bengal	4.45	3.53	3.74	3.70	3.66	4.32	3.65	4.36	4.04	2.64	2.50
Andhra Pradesh	6.54	5.89	0.87	5.57	5.33	3.73	3.33	3.96	3.71	2.61	2.37
Madhya Pradesh	2.00	2.92	1.50	2.85	3.31	2.45	2.35	2.66	2.63	2.50	2.45
Odisha	1.42	11.19	-2.54	8.88	9.58	1.81	2.11	1.98	2.03	2.23	1.62
Punjab	5.72	1.45	5.04	1.98	1.74	4.45	2.96	2.64	2.55	2.18	2.19
Himachal Pradesh	1.18	0.90	1.69	0.97	1.00	1.34	1.48	1.33	1.48	2.14	2.27
Jharkhand	1.27	3.38	0.49	3.04	3.40	1.26	1.88	1.62	1.67	1.92	1.79
Kerala	3.35	1.58	1.86	1.57	0.99	2.04	1.77	2.09	2.01	1.66	1.74
Chattisgarh	1.52	3.52	2.29	2.99	3.22	1.25	1.54	1.56	1.51	1.27	1.05
Goa	0.33	0.36	1.67	0.41	0.41	0.43	0.67	0.51	0.63	1.15	1.23
Assam	2.16	1.00	1.12	0.96	0.60	1.49	0.72	0.82	0.88	1.13	1.15
Dadra and Nagar Haveli	0.54	1.09	1.17	1.10	1.15	0.86	0.85	1.38	1.28	0.86	0.79
Sikkim	0.04	0.26	0.21	0.23	0.08	0.12	0.20	0.12	0.24	0.79	0.88
Daman and Diu	0.62	0.43	1.44	0.46	0.35	0.79	0.73	0.65	0.65	0.63	0.63
Bihar	1.47	0.37	0.37	0.42	0.35	0.77	0.39	0.72	0.68	0.48	0.48
Jammu and Kashmir	0.50	0.17	0.67	0.22	0.19	0.50	0.33	0.37	0.39	0.48	0.51
Delhi	1.34	0.18	1.28	0.39	0.11	0.67	0.68	0.93	0.84	0.47	0.51
Puducherry	0.30	0.17	0.40	0.19	0.24	0.32	0.31	0.30	0.33	0.42	0.45
Meghalaya	0.06	0.13	-0.03	0.12	0.16	0.08	0.06	0.05	0.05	0.06	0.02
Chandigarh	0.09	0.03	0.07	0.03	0.04	0.05	0.07	0.03	0.03	0.04	0.04
Tripura	0.30	0.02	0.01	0.02	0.02	0.19	0.04	0.02	0.02	0.03	0.03
Arunachal Pradesh	0.07	0.01	0.05	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.02
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	0.01	0.01	0.01	0.00	0.06	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 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	96	26	21	833	19	3164371	140618	70309	141617
Andhra Pradesh	1424	43	35	2032	200	4713233	627755	462933	159860
Arunachal Pradesh	169	28	22	970	171	3420735	681327	603615	79525
Assam	696	54	45	1564	319	2886949	681949	588144	76471
Bihar	620	40	34	1640	185	4103237	551810	461923	81362
Chandigarh	647	52	30	2943	370	5687196	813819	714360	217855
Chattisgarh	4354	65	51	3781	396	5799574	911360	607484	201409
Dadra and Nagar Haveli	3093	127	98	9109	897	7177982	910059	706624	143863
Daman and Diu	1071	102	81	3994	621	3919106	713964	609731	124871
Delhi	223	41	28	2488	230	6029793	614538	557232	149869
Goa	1593	103	71	7031	2184	6842275	2344427	2125519	208363
Gujarat	3335	86	66	6439	872	7477219	1218738	1012093	150644
Haryana	1697	121	95	7301	976	6050673	954785	809044	146425
Himachal Pradesh	1928	89	63	4863	1268	5489347	1623714	1431633	148797
Jammu and Kashmir	1070	80	63	3235	741	4029807	1039355	923556	110502
Jharkhand	4218	77	59	5032	866	6515977	1424620	1121342	254381
Karnataka	1686	99	77	4667	770	4710207	913518	777132	176598
Kerala	674	47	37	2122	295	4480648	699754	623300	154805
Madhya Pradesh	3756	94	71	5149	768	5493292	1064887	818849	145092
Maharashtra	1602	91	65	5096	990	5580916	1257177	1084026	189219
Manipur	85	45	38	201	41	446268	110537	90778	63008
Meghalaya	3224	106	90	3378	244	3195553	667809	231083	118779
Nagaland	118	32	28	284	69	877795	237439	212723	51008
Odisha	12547	101	83	5608	686	5544505	1131554	678022	199416
Puducherry	879	86	68	4155	912	4845863	1170035	1063136	151963
Punjab	386	61	50	1768	233	2883260	444086	379330	118225
Rajasthan	1220	65	50	3274	504	5075722	942265	781689	144007
Sikkim	10291	250	194	24307	13994	9733148	5965169	5603424	186524
Tamilnadu	893	76	63	2421	373	3178715	593967	489503	131283
Telangana	545	57	48	1602	279	2812788	582391	490125	117621
Tripura	81	48	42	241	59	506101	142927	124147	38888
Uttar Pradesh	1029	79	61	3843	702	4892205	997222	893446	131640
Uttarakhand	2297	167	135	8221	1937	4937243	1284139	1163412	130841
West Bengal	1323	74	58	3350	338	4498920	578976	453355	145145
<b>All India</b>	<b>1641</b>	<b>77</b>	<b>60</b>	<b>3738</b>	<b>590</b>	<b>4872525</b>	<b>917466</b>	<b>768496</b>	<b>148794</b>

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

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	66	24	20	263	22	1092116	117842	90041	129000
Andhra Pradesh	1374	45	37	2163	220	4784168	634620	486711	161362
Arunachal Pradesh	169	28	22	970	171	3420735	681327	603615	79525
Assam	704	55	46	1554	324	2840870	686050	592546	76078
Bihar	389	42	36	1755	199	4199775	563812	476899	79238
Chandigarh	505	46	30	1418	273	3082022	682141	593667	234139
Chattisgarh	3539	66	52	3789	421	5769810	917453	640865	202991
Dadra and Nagar Haveli	3093	127	98	9109	897	7177982	910059	706624	143863
Daman and Diu	1071	102	81	3994	621	3919106	713964	609731	124871
Delhi	199	39	27	2398	230	6076600	635275	582177	146729
Goa	1666	105	73	7339	2303	6986049	2417133	2191854	211245
Gujarat	3274	90	68	6523	894	7286988	1195761	999061	151537
Haryana	1677	123	97	7418	999	6038742	958052	813449	146557
Himachal Pradesh	1166	90	65	4794	1170	5322268	1448594	1298378	146607
Jammu and Kashmir	532	78	62	2991	625	3816748	875916	797083	102295
Jharkhand	4063	79	61	5041	859	6392533	1379294	1089710	258474
Karnataka	1753	105	82	4972	815	4713419	906158	772212	177361
Kerala	719	48	38	2286	317	4719550	732608	654316	155073
Madhya Pradesh	2228	97	73	5025	744	5176821	925888	766916	144179
Maharashtra	1634	95	68	5267	1060	5544950	1275237	1115751	190367
Manipur	84	45	39	203	41	446961	109874	89962	62308
Meghalaya	3230	109	93	3449	227	3170762	644266	208893	120200
Nagaland	121	35	30	247	73	711209	233303	209569	50021
Odisha	12030	101	84	5447	693	5384025	1116494	685181	201863
Puducherry	888	86	69	4193	923	4861947	1177689	1070116	151551
Punjab	385	62	50	1703	233	2760279	442519	377680	118127
Rajasthan	1020	65	51	3202	495	4922009	903309	761661	144416
Sikkim	10747	260	202	25407	14627	9770186	5987654	5624681	186740
Tamilnadu	754	79	66	2475	378	3142382	578652	479635	130639
Telangana	524	59	49	1480	283	2524833	569454	482880	116536
Tripura	81	49	43	245	60	501404	141683	123336	38520
Uttar Pradesh	931	84	65	4086	745	4889387	990341	891750	131849
Uttrakhand	1715	168	137	8202	1919	4868055	1238409	1138974	129324
West Bengal	1208	77	60	3458	342	4487826	551605	443227	145318
<b>All India</b>	<b>1525</b>	<b>79</b>	<b>62</b>	<b>3814</b>	<b>608</b>	<b>4805292</b>	<b>904446</b>	<b>766524</b>	<b>148889</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 93.05% of the operating factories covered in ASI 2016-17 are engaged in selected manufacturing activities, 0.42% are undertakings engaged in the generation, transmission and distribution of electricity, gas, water supply etc. and remaining 6.52% in 'other' activity including cotton ginning, cleaning and baling, extraction of salt and some repair services etc. Though the electricity undertakings are a few in numbers, they account for about 11.93% of the total fixed capital of all the factories covered in the survey as against 1.63% share by the 'other' activities. The selected manufacturing activities account for about 86.44% of the fixed capital. The selected manufacturing sector, consistent with its large number of factories, accounts for 94.96% of the value of output, which is produced by 96.29% of the total persons engaged. The electricity, gas, water sector contributes about 1.81% to the gross output and is produced by 0.55% of the total persons engaged. The corresponding share of the 'other' activities in the value of output is 3.23% which is produced by 3.16% of the total persons engaged. Of the estimated total net value added by industrial sector of ₹11,45,91,911 lakhs, ₹ 11,00,54,148 lakhs (96.04%) originate from selected manufacturing activities, ₹21,79,443 lakhs (1.90%) from electricity, gas, water supply, and the remaining ₹23,58,320 lakhs (2.06%) 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	180872	825	12683	194380
Fixed Capital	₹ Lakhs	275765708	38057539	5215401	319038649
Productive Capital	₹ Lakhs	341973332	36031000	7342604	385346936
Invested Capital	₹ Lakhs	382278024	39049571	8297894	429625490
Workers	Number	11286162	62563	314222	11662947
Total Persons Engaged	Number	14357567	82074	471548	14911189
Wages to Workers	₹ Lakhs	16803898	126270	423548	17353716
Total Emoluments	₹ Lakhs	36302232	308519	905633	37516385
Total Input	₹ Lakhs	560066520	8935172	20744681	589746374
Total Output	₹ Lakhs	689922988	13140313	23488122	726551423
GVA	₹ Lakhs	129856467	4205140	2743441	136805049
Depreciation	₹ Lakhs	19802320	2025697	385121	22213138
NVA	₹ Lakhs	110054148	2179443	2358320	114591911
Rent Paid for Fixed Assets	₹ Lakhs	1816825	12554	134942	1964321
Interest Paid	₹ Lakhs	15769634	2693544	476995	18940173
Income	₹ Lakhs	95540148	-154182	1835455	97221421
Profit	₹ Lakhs	53625335	-506578	816528	53935285

**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	93.05	0.42	6.52	100.00
Fixed Capital	86.44	11.93	1.63	100.00
Productive Capital	88.74	9.35	1.91	100.00
Invested Capital	88.98	9.09	1.93	100.00
Workers	96.77	0.54	2.69	100.00
Total Persons Engaged	96.29	0.55	3.16	100.00
Wages to Workers	96.83	0.73	2.44	100.00
Total Emoluments	96.76	0.82	2.41	100.00
Total Input	94.97	1.52	3.52	100.00
Total Output	94.96	1.81	3.23	100.00
GVA	94.92	3.07	2.01	100.00
Depreciation	89.15	9.12	1.73	100.00
NVA	96.04	1.90	2.06	100.00
Rent Paid for Fixed Assets	92.49	0.64	6.87	100.00
Interest Paid	83.26	14.22	2.52	100.00
Income	98.27	-0.16	1.89	100.00
Profit	99.43	-0.94	1.51	100.00



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

### 7.1 Principal Characteristics

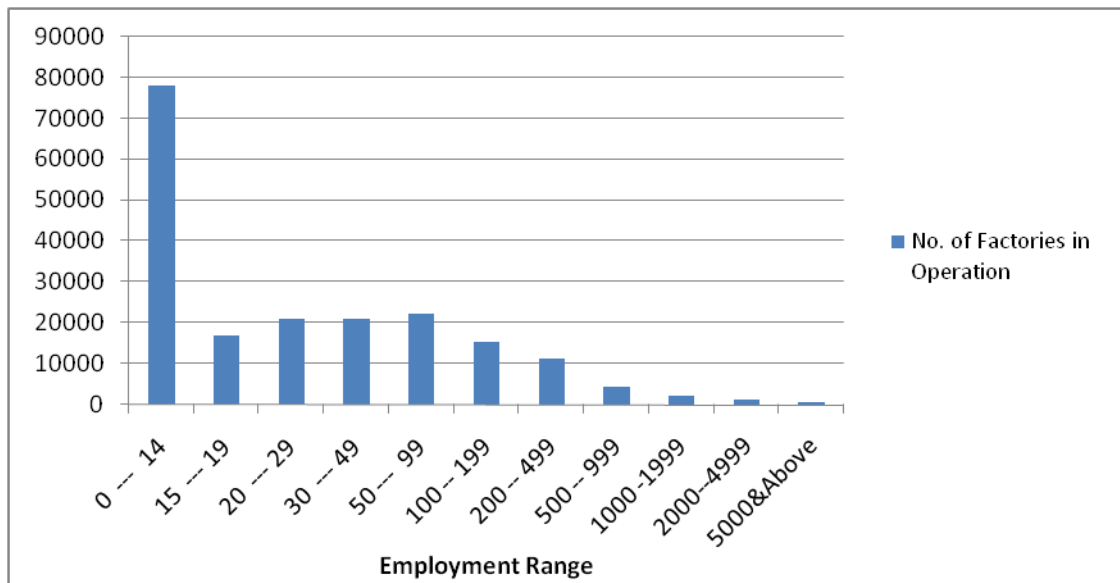
**7.1.1** Statements 11A and 11B respectively present the distribution of factories in operation belonging to the whole factory sector, in absolute and percentage terms, by size class of employment as also certain selected characteristics associated with them. Statements 11A and 11B indicate a skewed 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 1,94,380 factories in operation, 1,37,089 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, gross 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 (70.53%), it utilizes only 6.97% of the fixed capital, provides employment to 14.06% of the total persons engaged, produces 11.66% of the total output and generates 6.67% 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 10.17% of the operating factories, utilize 81.76% of the total fixed capital, provide gainful employment to 62.96% of the total persons engaged, produce 71.27% of the total output and generate 78.86% of net value added by manufacture. The very large operating factories, employing 5,000 or more employees each, constitute only 0.32% of the operating factories, however, engage 8.69 % of total persons engaged, utilize 24.83% of the fixed capital, produce 14.37% of total output and contribute 13.49% 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.

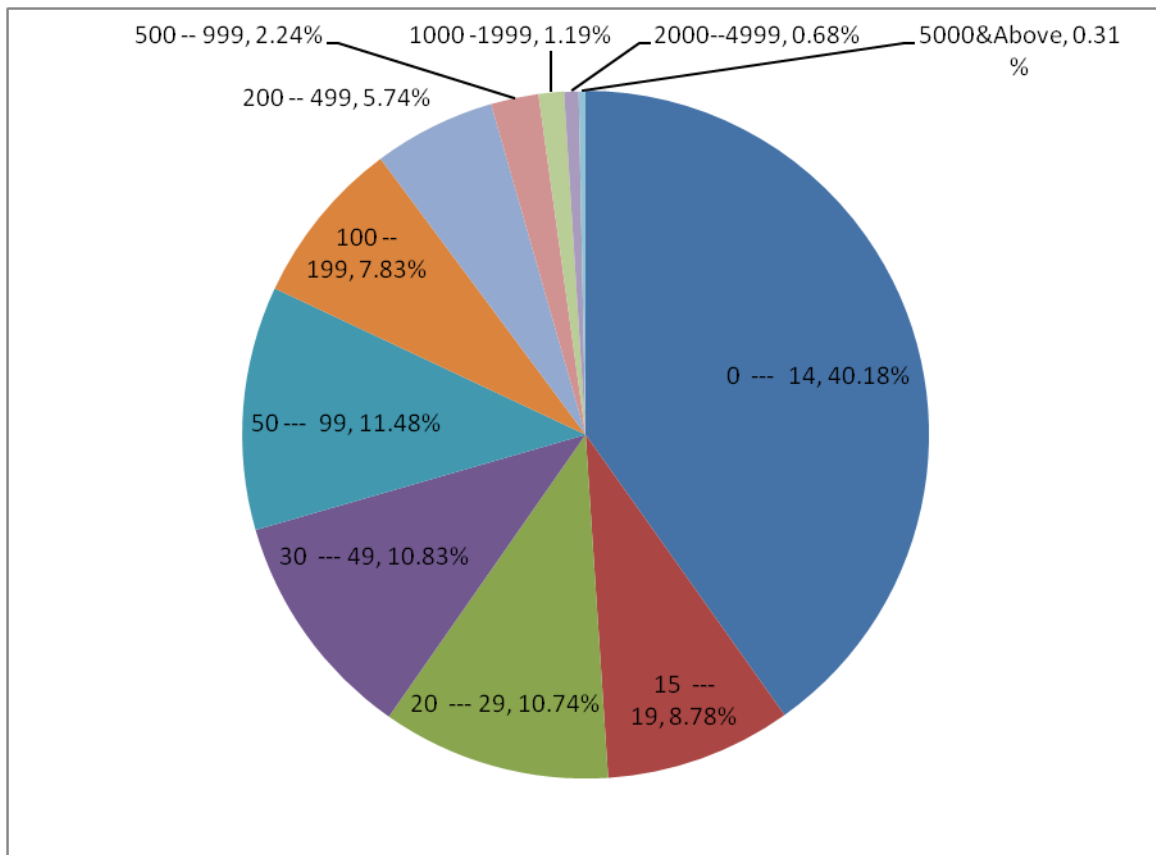
**7.1.3** Statement 13A and 13B give the distribution of operating factories by size of employment for each State/UT in absolute and percentage terms respectively for the whole factory sector. Statement 14A and 14B give the distribution of operating factories by size of employment for each State/UT in 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	78094	6608599	3508781	10117380	10493238	340918	522092	316756
15 --- 19	17071	2608840	1755367	4364208	4528453	202719	285833	205788
20 --- 29	20876	4527615	2757461	7285077	7722029	359013	495861	390438
30 --- 49	21048	8471779	5011938	13483718	13773193	590930	792232	662440
50 --- 99	22310	14821159	6467936	21289095	22911315	1182012	1508132	1328470
100 -- 199	15219	21141010	6610140	27751150	32087345	1502821	1918193	1835299
200 -- 499	11163	39469084	24214316	63683400	60284605	2218108	2844647	3211144
500 -- 999	4351	44820825	8729080	53549905	60931177	1610574	2032506	2615086
1000 -1999	2305	58039433	9055927	67095360	72006769	1351931	1701410	2381391
2000--4999	1318	39317785	-247157	39070628	51780465	1201789	1513821	2295565
5000&Above	625	79212519	-1555503	77657016	93106901	1102131	1296463	2111338
<b>Total</b>	<b>194380</b>	<b>319038649</b>	<b>66308287</b>	<b>385346936</b>	<b>429625490</b>	<b>11662947</b>	<b>14911189</b>	<b>17353716</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	615167	16295045	18283496	1988451	564637	1423815	47500	545637
15 --- 19	418021	10989904	12195944	1206040	257850	948189	32855	282692
20 --- 29	819217	17874475	20242657	2368182	440898	1927284	57423	497181
30 --- 49	1436660	29795421	33895207	4099786	756408	3343378	94499	890161
50 --- 99	2738134	46582977	54782149	8199172	1408734	6790438	182054	1336737
100 -- 199	3944499	57676228	69330451	11654223	1856965	9797257	231988	1760242
200 -- 499	7340973	106249081	131874649	25625568	3647321	21978247	414029	2940418
500 -- 999	5625698	75798873	100115346	24316473	3225086	21091387	304500	2930675
1000 -1999	5186385	71657414	91171315	19513900	3478475	16035426	245595	3149518
2000--4999	5020014	71504896	90227718	18722822	2924470	15798352	200983	2348507
5000&Above	4371618	85322061	104432492	19110431	3652293	15458138	152896	2258405
<b>Total</b>	<b>37516385</b>	<b>589746374</b>	<b>726551423</b>	<b>136805049</b>	<b>22213138</b>	<b>114591911</b>	<b>1964321</b>	<b>18940173</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	40.18	2.07	5.29	2.63	2.44	2.92	3.50	1.83
15 --- 19	8.78	0.82	2.65	1.13	1.05	1.74	1.92	1.19
20 --- 29	10.74	1.42	4.16	1.89	1.80	3.08	3.33	2.25
30 --- 49	10.83	2.66	7.56	3.50	3.21	5.07	5.31	3.82
50 --- 99	11.48	4.65	9.75	5.52	5.33	10.13	10.11	7.66
100 -- 199	7.83	6.63	9.97	7.20	7.47	12.89	12.86	10.58
200 -- 499	5.74	12.37	36.52	16.53	14.03	19.02	19.08	18.50
500 -- 999	2.24	14.05	13.16	13.90	14.18	13.81	13.63	15.07
1000 -1999	1.19	18.19	13.66	17.41	16.76	11.59	11.41	13.72
2000--4999	0.68	12.32	-0.37	10.14	12.05	10.30	10.15	13.23
5000&Above	0.32	24.83	-2.35	20.15	21.67	9.45	8.69	12.17
<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>
<hr/>								
<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	1.64	2.76	2.52	1.45	2.54	1.24	2.42	2.88
15 --- 19	1.11	1.86	1.68	0.88	1.16	0.83	1.67	1.49
20 --- 29	2.18	3.03	2.79	1.73	1.98	1.68	2.92	2.63
30 --- 49	3.83	5.05	4.67	3.00	3.41	2.92	4.81	4.70
50 --- 99	7.30	7.90	7.54	5.99	6.34	5.93	9.27	7.06
100 -- 199	10.51	9.78	9.54	8.52	8.36	8.55	11.81	9.29
200 -- 499	19.57	18.02	18.15	18.73	16.42	19.18	21.08	15.52
500 -- 999	15.00	12.85	13.78	17.77	14.52	18.41	15.50	15.47
1000 -1999	13.82	12.15	12.55	14.26	15.66	13.99	12.50	16.63
2000--4999	13.38	12.12	12.42	13.69	13.17	13.79	10.23	12.40
5000&Above	11.65	14.47	14.37	13.97	16.44	13.49	7.78	11.92
<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)**

<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	72430	5270788	3026328	8297116	8712344	316324	481916	291871
15 --- 19	15709	2115847	1491630	3607476	3818639	187378	263095	189990
20 --- 29	19293	3703330	3063704	6767034	6669714	334018	458748	362496
30 --- 49	19356	6850133	4359254	11209387	11674933	548136	729827	611793
50 --- 99	20758	11450965	7033243	18484208	18906948	1113628	1407238	1237208
100 -- 199	14434	18656420	7048645	25705065	28976838	1447604	1833259	1752195
200 -- 499	10616	35262091	24003319	59265410	55519470	2159572	2752404	3108956
500 -- 999	4166	34463435	8713487	43176922	50151992	1573643	1983143	2549066
1000 -1999	2203	39992119	9721066	49713185	53549543	1311749	1649639	2305884
2000--4999	1281	38903944	-211684	38692260	51346301	1196365	1506919	2288401
5000&Above	624	79096638	-2041369	77055268	92951302	1097745	1291378	2106037
<b>Total</b>	<b>180872</b>	<b>275765708</b>	<b>66207624</b>	<b>341973332</b>	<b>382278024</b>	<b>11286162</b>	<b>14357567</b>	<b>16803898</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	564153	13971102	15651635	1680533	466454	1214079	39941	429298
15 --- 19	386277	9461380	10532340	1070960	223474	847486	28978	230079
20 --- 29	763039	16155011	18314884	2159873	386758	1773116	50796	421556
30 --- 49	1327950	26990739	30616652	3625913	636215	2989698	77459	805393
50 --- 99	2550081	42370850	50056775	7685925	1215814	6470112	155417	1101139
100 -- 199	3748844	53254978	64177444	10922466	1686784	9235681	197731	1529486
200 -- 499	7106171	102600624	127183956	24583332	3182359	21400973	387807	2599617
500 -- 999	5462313	71248328	94026619	22778291	2775558	20002733	289634	2101695
1000 -1999	5025420	67656399	85425006	17768608	2687414	15081193	237925	1971069
2000--4999	5004465	71199426	89812618	18613192	2899519	15713673	198405	2322413
5000&Above	4363520	85157684	104125059	18967374	3641970	15325404	152731	2257891
<b>Total</b>	<b>36302232</b>	<b>560066520</b>	<b>689922988</b>	<b>129856467</b>	<b>19802320</b>	<b>110054148</b>	<b>1816825</b>	<b>15769634</b>

<b>Statement 12B : Principal Characteristics by Size of Employment (Only for Selected Manufacturing Sector)</b>								
<b>(Percentage Distribution)</b>								
<b>Employment Range</b>	<b>Factories in Operation</b>	<b>Fixed Capital</b>	<b>Working Capital</b>	<b>Productive Capital</b>	<b>Invested Capital</b>	<b>Workers</b>	<b>Total Persons Engaged</b>	<b>Wages to Workers</b>
0 --- 14	40.04	1.91	4.57	2.43	2.28	2.80	3.36	1.74
15 --- 19	8.69	0.77	2.25	1.05	1.00	1.66	1.83	1.13
20 --- 29	10.67	1.34	4.63	1.98	1.74	2.96	3.20	2.16
30 --- 49	10.70	2.48	6.58	3.28	3.05	4.86	5.08	3.64
50 --- 99	11.48	4.15	10.62	5.41	4.95	9.87	9.80	7.36
100 -- 199	7.98	6.77	10.65	7.52	7.58	12.83	12.77	10.43
200 -- 499	5.87	12.79	36.25	17.33	14.52	19.13	19.17	18.50
500 -- 999	2.30	12.50	13.16	12.63	13.12	13.94	13.81	15.17
1000 -1999	1.22	14.50	14.68	14.54	14.01	11.62	11.49	13.72
2000--4999	0.71	14.11	-0.32	11.31	13.43	10.60	10.50	13.62
5000&Above	0.34	28.68	-3.08	22.53	24.32	9.73	8.99	12.53
<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>Employment Range</b>	<b>Total Emoluments</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>
0 --- 14	1.55	2.49	2.27	1.29	2.36	1.10	2.20	2.72
15 --- 19	1.06	1.69	1.53	0.82	1.13	0.77	1.59	1.46
20 --- 29	2.10	2.88	2.65	1.66	1.95	1.61	2.80	2.67
30 --- 49	3.66	4.82	4.44	2.79	3.21	2.72	4.26	5.11
50 --- 99	7.02	7.57	7.26	5.92	6.14	5.88	8.55	6.98
100 -- 199	10.33	9.51	9.30	8.41	8.52	8.39	10.88	9.70
200 -- 499	19.58	18.32	18.43	18.93	16.07	19.45	21.35	16.48
500 -- 999	15.05	12.72	13.63	17.54	14.02	18.18	15.94	13.33
1000 -1999	13.84	12.08	12.38	13.68	13.57	13.70	13.10	12.50
2000--4999	13.79	12.71	13.02	14.33	14.64	14.28	10.92	14.73
5000&Above	12.02	15.20	15.09	14.61	18.39	13.93	8.41	14.32
<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	3	3	3	4	0	0	0	0	0	0	16	334	421
Andhra Pradesh	8430	993	1049	761	818	458	336	126	81	25	6	13084	456946	564017
Arunachal Pradesh	52	17	15	19	11	3	1	0	0	0	0	118	2569	3347
Assam	1642	279	257	419	689	604	117	10	5	2	0	4024	181098	218002
Bihar	1535	155	140	225	423	382	32	14	3	0	0	2908	98971	116232
Chandigarh	102	19	17	14	24	13	10	3	0	0	0	200	5987	10348
Chhattisgarh	1196	338	467	310	206	130	83	49	19	18	57	2874	146551	187374
Dadra&Nagar Haveli	200	59	87	111	180	145	118	37	10	0	25	971	94953	123227
Daman & Diu	282	90	122	143	204	105	101	37	15	20	0	1118	90700	113925
Delhi	1173	236	292	340	326	145	126	52	8	1	0	2699	75257	111370
Goa	184	26	89	67	91	67	64	21	16	2	0	626	44576	64324
Gujarat	7368	1958	2241	2065	2111	1300	1173	357	247	137	25	18980	1246650	1634566
Haryana	1977	369	777	923	1004	794	592	242	102	53	23	6854	650051	826994
Himachal Pradesh	536	231	325	308	326	233	196	61	17	1	0	2233	141772	197826
Jammu & Kashmir	421	96	84	71	112	68	60	22	3	0	1	938	59028	75307
Jharkhand	1085	271	326	240	266	78	89	37	14	15	27	2449	144620	189116
Karnataka	3510	935	1304	1155	1217	839	794	442	280	137	135	10748	827665	1065021
Kerala	3023	675	607	750	677	372	303	152	106	77	7	6748	249935	319568
Madhya Pradesh	1478	347	486	447	442	297	273	93	75	28	8	3975	280373	372587
Maharashtra	6229	1879	2512	2746	2853	2058	1650	703	314	127	23	21095	1365361	1926154
Manipur	53	22	28	38	31	8	0	0	0	1	0	181	6942	8133
Meghalaya	47	7	16	10	13	5	12	5	2	0	0	117	10517	12367
Nagaland	93	17	17	15	29	10	0	1	0	0	0	182	5109	5895
Odisha	1556	216	234	188	167	129	101	51	15	17	20	2694	222789	272508
Puducherry	182	27	57	78	59	56	58	19	8	1	0	545	37082	46728
Punjab	3746	1098	1533	1525	1573	583	395	137	67	48	1	10705	531365	656255
Rajasthan	3589	766	783	826	1151	507	413	110	60	41	17	8263	412774	533019
Sikkim	11	3	5	7	13	9	9	5	7	0	0	69	13372	17232
Tamilnadu	11311	2681	3211	3596	3859	2890	2057	902	535	372	201	31614	2003759	2408282
Telangana	8738	688	864	634	750	396	372	137	76	55	15	12725	605994	724612
Tripura	293	15	19	28	81	121	12	4	0	0	0	573	23956	27258
Uttar Pradesh	4344	1320	1536	1674	1471	1314	842	251	84	47	12	12894	783541	1012882
Uttarakhand	438	213	271	296	326	473	346	124	47	16	7	2556	344376	425616
West Bengal	3266	1023	1105	1019	805	629	429	146	90	77	15	8604	497977	640678
<b>All India</b>	<b>78094</b>	<b>17071</b>	<b>20876</b>	<b>21048</b>	<b>22310</b>	<b>15219</b>	<b>11163</b>	<b>4351</b>	<b>2305</b>	<b>1318</b>	<b>625</b>	<b>194380</b>	<b>11662947</b>	<b>14911189</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 --- 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	18.75	18.75	18.75	18.75	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
Andhra Pradesh	64.43	7.59	8.02	5.82	6.25	3.50	2.57	0.96	0.62	0.19	0.05	0.05	100.00	3.92	3.78
Arunachal Pradesh	44.07	14.41	12.71	16.10	9.32	2.54	0.85	0.00	0.00	0.00	0.00	0.00	100.00	0.02	0.02
Assam	40.81	6.93	6.39	10.41	17.12	15.01	2.91	0.25	0.12	0.05	0.00	0.00	100.00	1.55	1.46
Bihar	52.79	5.33	4.81	7.74	14.55	13.14	1.10	0.48	0.10	0.00	0.00	0.00	100.00	0.85	0.78
Chandigarh	51.00	9.50	8.50	7.00	12.00	6.50	5.00	1.50	0.00	0.00	0.00	0.00	100.00	0.05	0.07
Chattisgarh	41.61	11.76	16.25	10.79	7.17	4.52	2.89	1.70	0.66	0.63	1.98	0.00	100.00	1.26	1.26
D&N Haveli	20.60	6.08	8.96	11.43	18.54	14.93	12.15	3.81	1.03	0.00	2.57	0.00	100.00	0.81	0.83
Daman & Diu	25.22	8.05	10.91	12.79	18.25	9.39	9.03	3.31	1.34	1.79	0.00	0.00	100.00	0.78	0.76
Delhi	43.46	8.74	10.82	12.60	12.08	5.37	4.67	1.93	0.30	0.04	0.00	0.00	100.00	0.65	0.75
Goa	29.39	4.15	14.22	10.70	14.54	10.70	10.22	3.35	2.56	0.32	0.00	0.00	100.00	0.38	0.43
Gujarat	38.82	10.32	11.81	10.88	11.12	6.85	6.18	1.88	1.30	0.72	0.13	0.00	100.00	10.69	10.96
Haryana	28.84	5.38	11.34	13.47	14.65	11.58	8.64	3.53	1.49	0.77	0.34	0.00	100.00	5.57	5.55
Himachal Pradesh	24.00	10.34	14.55	13.79	14.60	10.43	8.78	2.73	0.76	0.04	0.00	0.00	100.00	1.22	1.33
Jammu & Kashmir	44.88	10.23	8.96	7.57	11.94	7.25	6.40	2.35	0.32	0.00	0.11	0.00	100.00	0.51	0.51
Jharkhand	44.30	11.07	13.31	9.80	10.86	3.18	3.63	1.51	0.57	0.61	1.10	0.00	100.00	1.24	1.27
Karnataka	32.66	8.70	12.13	10.75	11.32	7.81	7.39	4.11	2.61	1.27	1.26	0.00	100.00	7.10	7.14
Kerala	44.80	10.00	9.00	11.11	10.03	5.51	4.49	2.25	1.57	1.14	0.10	0.00	100.00	2.14	2.14
Madhya Pradesh	37.18	8.73	12.23	11.25	11.12	7.47	6.87	2.34	1.89	0.70	0.20	0.00	100.00	2.40	2.50
Maharashtra	29.53	8.91	11.91	13.02	13.52	9.76	7.82	3.33	1.49	0.60	0.11	0.00	100.00	11.71	12.92
Manipur	29.28	12.15	15.47	20.99	17.13	4.42	0.00	0.00	0.00	0.55	0.00	0.00	100.00	0.06	0.05
Meghalaya	40.17	5.98	13.68	8.55	11.11	4.27	10.26	4.27	1.71	0.00	0.00	0.00	100.00	0.09	0.08
Nagaland	51.10	9.34	9.34	8.24	15.93	5.49	0.00	0.55	0.00	0.00	0.00	0.00	100.00	0.04	0.04
Odisha	57.76	8.02	8.69	6.98	6.20	4.79	3.75	1.89	0.56	0.63	0.74	0.00	100.00	1.91	1.83
Puducherry	33.39	4.95	10.46	14.31	10.83	10.28	10.64	3.49	1.47	0.18	0.00	0.00	100.00	0.32	0.31
Punjab	34.99	10.26	14.32	14.25	14.69	5.45	3.69	1.28	0.63	0.45	0.01	0.00	100.00	4.56	4.40
Rajasthan	43.43	9.27	9.48	10.00	13.93	6.14	5.00	1.33	0.73	0.50	0.21	0.00	100.00	3.54	3.57
Sikkim	15.94	4.35	7.25	10.14	18.84	13.04	13.04	7.25	10.14	0.00	0.00	0.00	100.00	0.11	0.12
Tamilnadu	35.78	8.48	10.16	11.37	12.21	9.14	6.51	2.85	1.69	1.18	0.64	0.00	100.00	17.18	16.15
Telangana	68.67	5.41	6.79	4.98	5.89	3.11	2.92	1.08	0.60	0.43	0.12	0.00	100.00	5.20	4.86
Tripura	51.13	2.62	3.32	4.89	14.14	21.12	2.09	0.70	0.00	0.00	0.00	0.00	100.00	0.21	0.18
Uttar Pradesh	33.69	10.24	11.91	12.98	11.41	10.19	6.53	1.95	0.65	0.36	0.09	0.00	100.00	6.72	6.79
Uttrakhand	17.14	8.33	10.60	11.58	12.75	18.51	13.54	4.85	1.84	0.63	0.27	0.00	100.00	2.95	2.85
West Bengal	37.96	11.89	12.84	11.84	9.36	7.31	4.99	1.70	1.05	0.89	0.17	0.00	100.00	4.27	4.30
<b>All India</b>	<b>40.18</b>	<b>8.78</b>	<b>10.74</b>	<b>10.83</b>	<b>11.48</b>	<b>7.83</b>	<b>5.74</b>	<b>2.24</b>	<b>1.19</b>	<b>0.68</b>	<b>0.32</b>	<b>0.00</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 ---	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	3	2	2	0	3	0	0	0	0	0	0	10	200	241
Andhra Pradesh	7636	885	953	656	703	437	325	124	80	25	6	11830	436483	534923
Arunachal Pradesh	52	17	15	19	11	3	1	0	0	0	0	118	2569	3347
Assam	1588	268	251	405	665	591	117	10	5	2	0	3902	177986	213453
Bihar	1374	144	104	208	412	367	32	13	3	0	0	2656	95640	111010
Chandigarh	100	18	7	14	12	5	6	3	0	0	0	164	4924	7548
Chattisgarh	1158	334	422	306	184	119	80	46	19	18	57	2743	141674	180150
D&N Haveli	200	59	87	111	180	145	118	37	10	0	25	971	94953	123227
Daman & Diu	282	90	122	143	204	105	101	37	15	20	0	1118	90700	113925
Delhi	1105	228	263	308	287	121	72	38	8	1	0	2431	66323	95925
Goa	180	25	89	46	89	61	62	21	16	2	0	590	43031	61981
Gujarat	6834	1737	2059	1955	1922	1244	1152	352	244	137	24	17661	1208841	1581039
Haryana	1878	357	758	867	972	757	581	237	101	53	23	6584	638452	808826
Himachal Pradesh	513	229	301	283	310	229	194	60	16	1	0	2134	138130	192228
Jammu & Kashmir	408	96	84	71	105	64	55	20	3	0	1	907	56599	71071
Jharkhand	1024	255	299	222	247	73	80	36	14	14	27	2292	138691	180724
Karnataka	3132	850	1151	1031	1110	787	700	394	222	127	135	9638	794087	1016685
Kerala	2833	617	512	588	541	341	282	152	106	77	7	6056	231494	293373
Madhya Pradesh	1341	314	434	391	390	283	269	92	67	28	8	3617	265015	351106
Maharashtra	5629	1770	2362	2547	2677	1913	1562	680	312	127	23	19601	1323999	1861718
Manipur	53	21	25	37	30	8	0	0	0	1	0	175	6776	7930
Meghalaya	43	5	16	10	13	5	11	5	2	0	0	110	10183	11964
Nagaland	78	13	16	15	27	10	0	1	0	0	0	160	4864	5549
Odisha	1514	209	228	172	148	109	86	50	12	17	20	2565	214597	259520
Puducherry	181	24	57	78	56	55	58	19	8	1	0	537	36857	46309
Punjab	3566	1073	1514	1471	1536	570	374	129	67	48	1	10349	521378	638584
Rajasthan	3475	742	731	786	1082	471	369	104	58	41	17	7876	399511	512299
Sikkim	9	3	5	6	13	9	9	5	7	0	0	66	13326	17163
Tamilnadu	10425	2421	3058	3357	3688	2760	1986	866	519	346	201	29626	1946911	2333405
Telangana	8269	623	738	503	603	329	347	128	75	55	15	11685	576348	684943
Tripura	278	13	16	27	79	121	12	4	0	0	0	550	23723	26920
Uttar Pradesh	3799	1135	1318	1500	1376	1268	821	246	83	47	12	11604	754060	969806
Uttrakhand	409	212	267	293	312	466	343	121	47	16	7	2493	341228	420028
West Bengal	3061	921	1032	933	773	609	413	136	86	77	15	8055	486610	620647
<b>All India</b>	<b>72430</b>	<b>15709</b>	<b>19293</b>	<b>19356</b>	<b>20758</b>	<b>14434</b>	<b>10616</b>	<b>4166</b>	<b>2203</b>	<b>1281</b>	<b>624</b>	<b>180872</b>	<b>11286162</b>	<b>14357567</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	30.00	20.00	20.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
Andhra Pradesh	64.55	7.48	8.06	5.55	5.94	3.69	2.75	1.05	0.68	0.21	0.05	100.00	3.87	3.73
Arunachal Pradesh	44.07	14.41	12.71	16.10	9.32	2.54	0.85	0.00	0.00	0.00	0.00	100.00	0.02	0.02
Assam	40.70	6.87	6.43	10.38	17.04	15.15	3.00	0.26	0.13	0.05	0.00	100.00	1.58	1.49
Bihar	51.73	5.42	3.92	7.83	15.51	13.82	1.20	0.49	0.11	0.00	0.00	100.00	0.85	0.77
Chandigarh	60.98	10.98	4.27	8.54	7.32	3.05	3.66	1.83	0.00	0.00	0.00	100.00	0.04	0.05
Chattisgarh	42.22	12.18	15.38	11.16	6.71	4.34	2.92	1.68	0.69	0.66	2.08	100.00	1.26	1.25
D&N Haveli	20.60	6.08	8.96	11.43	18.54	14.93	12.15	3.81	1.03	0.00	2.57	100.00	0.84	0.86
Daman & Diu	25.22	8.05	10.91	12.79	18.25	9.39	9.03	3.31	1.34	1.79	0.00	100.00	0.80	0.79
Delhi	45.45	9.38	10.82	12.67	11.81	4.98	2.96	1.56	0.33	0.04	0.00	100.00	0.59	0.67
Goa	30.51	4.24	15.08	7.80	15.08	10.34	10.51	3.56	2.71	0.34	0.00	100.00	0.38	0.43
Gujarat	38.70	9.84	11.66	11.07	10.88	7.04	6.52	1.99	1.38	0.78	0.14	100.00	10.71	11.01
Haryana	28.52	5.42	11.51	13.17	14.76	11.50	8.82	3.60	1.53	0.80	0.35	100.00	5.66	5.63
Himachal Pradesh	24.04	10.73	14.10	13.26	14.53	10.73	9.09	2.81	0.75	0.05	0.00	100.00	1.22	1.34
Jammu & Kashmir	44.98	10.58	9.26	7.83	11.58	7.06	6.06	2.21	0.33	0.00	0.11	100.00	0.50	0.50
Jharkhand	44.68	11.13	13.05	9.69	10.78	3.18	3.49	1.57	0.61	0.61	1.18	100.00	1.23	1.26
Karnataka	32.50	8.82	11.94	10.70	11.52	8.17	7.26	4.09	2.30	1.32	1.40	100.00	7.04	7.08
Kerala	46.78	10.19	8.45	9.71	8.93	5.63	4.66	2.51	1.75	1.27	0.12	100.00	2.05	2.04
Madhya Pradesh	37.07	8.68	12.00	10.81	10.78	7.82	7.44	2.54	1.85	0.77	0.22	100.00	2.35	2.45
Maharashtra	28.72	9.03	12.05	12.99	13.66	9.76	7.97	3.47	1.59	0.65	0.12	100.00	11.73	12.97
Manipur	30.29	12.00	14.29	21.14	17.14	4.57	0.00	0.00	0.00	0.57	0.00	100.00	0.06	0.06
Meghalaya	39.09	4.55	14.55	9.09	11.82	4.55	10.00	4.55	1.82	0.00	0.00	100.00	0.09	0.08
Nagaland	48.75	8.13	10.00	9.38	16.88	6.25	0.00	0.63	0.00	0.00	0.00	100.00	0.04	0.04
Odisha	59.03	8.15	8.89	6.71	5.77	4.25	3.35	1.95	0.47	0.66	0.78	100.00	1.90	1.81
Puducherry	33.71	4.47	10.61	14.53	10.43	10.24	10.80	3.54	1.49	0.19	0.00	100.00	0.33	0.32
Punjab	34.46	10.37	14.63	14.21	14.84	5.51	3.61	1.25	0.65	0.46	0.01	100.00	4.62	4.45
Rajasthan	44.12	9.42	9.28	9.98	13.74	5.98	4.69	1.32	0.74	0.52	0.22	100.00	3.54	3.57
Sikkim	13.64	4.55	7.58	9.09	19.70	13.64	13.64	7.58	10.61	0.00	0.00	100.00	0.12	0.12
Tamilnadu	35.19	8.17	10.32	11.33	12.45	9.32	6.70	2.92	1.75	1.17	0.68	100.00	17.25	16.25
Telangana	70.77	5.33	6.32	4.30	5.16	2.82	2.97	1.10	0.64	0.47	0.13	100.00	5.11	4.77
Tripura	50.55	2.36	2.91	4.91	14.36	22.00	2.18	0.73	0.00	0.00	0.00	100.00	0.21	0.19
Uttar Pradesh	32.74	9.78	11.36	12.93	11.86	10.93	7.08	2.12	0.72	0.41	0.10	100.00	6.68	6.75
Uttarakhand	16.41	8.50	10.71	11.75	12.52	18.69	13.76	4.85	1.89	0.64	0.28	100.00	3.02	2.93
West Bengal	38.00	11.43	12.81	11.58	9.60	7.56	5.13	1.69	1.07	0.96	0.19	100.00	4.31	4.32
<b>All India</b>	<b>40.04</b>	<b>8.69</b>	<b>10.67</b>	<b>10.70</b>	<b>11.48</b>	<b>7.98</b>	<b>5.87</b>	<b>2.30</b>	<b>1.22</b>	<b>0.71</b>	<b>0.34</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 crore, account for 84.75% of the total factories which have operated during 2016-17. While these factories share 9.86% of total fixed capital to work with, they provide gainful employment to 41.19 % of the total persons engaged. Their contribution to the gross output and net value added by manufacture are 21.74% and 17.94% respectively. As against this, the operational factories, with gross investment in plant and machinery of ₹ 10 crores & above, are very few (10.89%) in number, account for about 88.09 % of total fixed capital, 52.41% of total persons engaged, 73.21% of the gross output and 77.41% of the total net value added by manufacture.

Statement 15A: Principal Characteristics by Size of Capital

Capital Range (₹ Lakh)*	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	130396	22138659	39159743	37505729	3553671	4349172	3392662	5799662
25 -- 500	34338	9307994	16886864	18749119	1303101	1792739	1660015	3849164
500 -- 1000	8470	6566001	11385384	12284169	735454	953652	975266	2311081
1000 & above	21176	281025995	317914945	361086473	6070721	7815626	11325772	25556478
<b>Total</b>	<b>194380</b>	<b>319038649</b>	<b>385346936</b>	<b>429625490</b>	<b>11662947</b>	<b>14911189</b>	<b>17353716</b>	<b>37516385</b>

Capital Range (₹ Lakh)*	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	82390558	97017794	14627237	2014483	12612754	305453	2029100
25 -- 500	52073566	60937431	8863866	919017	7944849	295726	1330568
500 -- 1000	30647801	36689909	6042108	708921	5333187	128148	696764
1000 & above	424634450	531906288	107271838	18570717	88701121	1234994	14883740
<b>Total</b>	<b>589746374</b>	<b>726551423</b>	<b>136805049</b>	<b>22213138</b>	<b>114591911</b>	<b>1964321</b>	<b>18940173</b>

\* In terms of Gross Value of Plant and Machinery

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

<i>Capital Range ( ₹ Lakh)*</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	67.08	6.94	10.16	8.73	30.47	29.17	19.55	15.46
25 -- 500	17.67	2.92	4.38	4.36	11.17	12.02	9.57	10.26
500 -- 1000	4.36	2.06	2.95	2.86	6.31	6.40	5.62	6.16
1000 & above	10.89	88.09	82.50	84.05	52.05	52.41	65.26	68.12
<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 ( ₹ Lakh)*</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	13.97	13.35	10.69	9.07	11.01	15.55	10.71	
25 -- 500	8.83	8.39	6.48	4.14	6.93	15.05	7.03	
500 -- 1000	5.20	5.05	4.42	3.19	4.65	6.52	3.68	
1000 & above	72.00	73.21	78.41	83.60	77.41	62.87	78.58	
<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 gross output, is presented in Statement 16A. The percentage distribution of these characteristics is given in Statement 16B. It is observed that 30.92% of the operating factories, that produce gross output up to one crore, share 1.56% of fixed capital, provide employment to 4.98% of total persons engaged, pay emoluments to the extent of 1.49% of total emoluments, contribute 0.27% to the total output. About 31.82% of the operating factories, producing gross output of more than ₹ 10 crores, consume 94.24% of fixed capital, provide 80.05% of total employment and pay 90.04% of total emoluments. This group of factories contributes about 96.09% of total output and 96.17% 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	29746	3389091	2310689	3964574	110448	155684	75005	125562
25 --- 50	11124	537918	610669	695860	128739	159270	82038	117299
50 -- 100	19245	1044252	1618950	1518520	356964	427741	220416	317429
100 -- 200	25009	2929660	3095780	3995621	450854	560515	379580	597481
200 -- 500	27231	4023362	5884968	6298363	634676	805239	646948	1128120
500 -- 1000	20178	6433608	8024505	9360478	667113	864759	761740	1451052
1000 -- 2000	18421	8621652	12614133	13306372	916696	1186845	1081472	2175625
2000 -- 5000	19712	17390215	24748858	27105814	1590512	2028320	2032566	4048225
5000 -- 10000	9578	19341502	25346707	29160000	1337350	1700406	1785290	3734806
10000 -- 50000	10842	57193589	76136610	86586515	3071201	3862539	4578801	9840750
50000 & above	3294	198133800	224955067	247633373	2398394	3159872	5709860	13980035
<b>Total</b>	<b>194380</b>	<b>319038649</b>	<b>385346936</b>	<b>429625490</b>	<b>11662947</b>	<b>14911189</b>	<b>17353716</b>	<b>37516385</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	222941	82001	-140941	203081	-344022	4776	188102
25 --- 50	267100	413764	146664	40873	105792	4990	43603
50 -- 100	961584	1427423	465840	89735	376104	14335	63398
100 -- 200	2636208	3551512	915304	291961	623343	31603	246449
200 -- 500	6829821	8775592	1945771	405214	1540557	67885	358553
500 -- 1000	11518863	14183656	2664793	589817	2074976	86807	561607
1000 -- 2000	20895799	25360289	4464490	853804	3610686	117054	745440
2000 -- 5000	48971545	58212557	9241011	1686898	7554113	212744	1695066
5000 -- 10000	49012674	58474351	9461676	1618403	7843273	179192	1545682
10000 -- 50000	140483124	170507854	30024730	4766176	25258554	497689	4114460
50000 & above	307946714	385562423	77615709	11667174	65948535	747248	9377813
<b>Total</b>	<b>589746374</b>	<b>726551423</b>	<b>136805049</b>	<b>22213138</b>	<b>114591911</b>	<b>1964321</b>	<b>18940173</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	15.30	1.06	0.60	0.92	0.95	1.04	0.43	0.33
25 --- 50	5.72	0.17	0.16	0.16	1.10	1.07	0.47	0.31
50 -- 100	9.90	0.33	0.42	0.35	3.06	2.87	1.27	0.85
100 -- 200	12.87	0.92	0.80	0.93	3.87	3.76	2.19	1.59
200 -- 500	14.01	1.26	1.53	1.47	5.44	5.40	3.73	3.01
500 -- 1000	10.38	2.02	2.08	2.18	5.72	5.80	4.39	3.87
1000 -- 2000	9.48	2.70	3.27	3.10	7.86	7.96	6.23	5.80
2000 -- 5000	10.14	5.45	6.42	6.31	13.64	13.60	11.71	10.79
5000 -- 10000	4.93	6.06	6.58	6.79	11.47	11.40	10.29	9.96
10000 -- 50000	5.58	17.93	19.76	20.15	26.33	25.90	26.39	26.23
50000 & above	1.69	62.10	58.38	57.64	20.56	21.19	32.90	37.26
<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	0.04	0.01	-0.10	0.91	-0.30	0.24	0.99
25 --- 50	0.05	0.06	0.11	0.18	0.09	0.25	0.23
50 -- 100	0.16	0.20	0.34	0.40	0.33	0.73	0.33
100 -- 200	0.45	0.49	0.67	1.31	0.54	1.61	1.30
200 -- 500	1.16	1.21	1.42	1.82	1.34	3.46	1.89
500 -- 1000	1.95	1.95	1.95	2.66	1.81	4.42	2.97
1000 -- 2000	3.54	3.49	3.26	3.84	3.15	5.96	3.94
2000 -- 5000	8.30	8.01	6.75	7.59	6.59	10.83	8.95
5000 -- 10000	8.31	8.05	6.92	7.29	6.84	9.12	8.16
10000 -- 50000	23.82	23.47	21.95	21.46	22.04	25.34	21.72
50000 & above	52.22	53.07	56.73	52.52	57.55	38.04	49.51
<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 15.14% of the operating factories, each with less than ₹ 2.5 Lakhs of net value added, share about 18.05% of total fixed capital, provide gainful employment to 5.55% of total persons engaged of the factory sector, disburse 6.08 % of the emoluments. These units, consuming about 6.05% of total input, are found to produce 4.55% of total output. On the other hand, about 8.97% of the operating factories, each contributing at least ₹ 10 crores of net value added, possess 69.40% of the total fixed capital. They have 52.93% of total persons engaged, taking away 67.45% of the total salary/wage bill in terms of emoluments and produce 71.97% of total output after consuming 68.81% 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	29429	57600480	49465479	66177978	616050	827767	980861	2281382
2.5 --- 5	4406	181965	266721	257947	21286	30909	15085	25768
5 ---- 10	10316	443009	707761	724529	58495	84004	41831	68337
10 ---- 20	20260	913375	1260596	1617696	179640	243276	136884	230618
20 ---- 50	37419	2752084	5022637	5165569	642515	809205	476936	770687
50 ----100	24890	3685907	6385492	6757317	670033	837275	623509	1054445
100----200	20650	6323515	10454043	11116089	795602	1017930	854108	1600974
200----500	19582	12622695	18449260	21112001	1304518	1666329	1560396	3094503
500----1000	9988	13099528	18446746	20977829	1185933	1501135	1540263	3084705
1000---5000	12151	40194289	57802261	63419752	2803210	3536017	4072535	8618135
5000& above	5289	181221802	217085940	232298784	3385666	4357343	7051307	16686831
<b>Total</b>	<b>194380</b>	<b>319038649</b>	<b>385346936</b>	<b>429625490</b>	<b>11662947</b>	<b>14911189</b>	<b>17353716</b>	<b>37516385</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	35679157	33040720	-2638436	3558747	-6197183	142408	3614325
2.5 --- 5	259897	292673	32776	16316	16460	1550	7204
5 ---- 10	1019876	1138425	118549	40703	77846	4176	30914
10 ---- 20	2792613	3187889	395276	93490	301786	13094	61438
20 ---- 50	10886766	12400355	1513589	291545	1222044	42313	297599
50 ----100	16177239	18322725	2145486	392738	1752748	55330	438238
100----200	26953036	30445864	3492827	636578	2856250	89415	717427
200----500	47588097	54708594	7120497	1215562	5904936	167623	1412235
500----1000	42583942	50057572	7473630	1226675	6246955	148115	1171923
1000---5000	111641943	135599334	23957391	3532616	20424776	428181	2950262
5000& above	294163809	387357271	93193462	11208170	81985292	872117	8238608
<b>Total</b>	<b>589746374</b>	<b>726551423</b>	<b>136805049</b>	<b>22213138</b>	<b>114591911</b>	<b>1964321</b>	<b>18940173</b>

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

<b>NVA Range (Rs. 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	15.14	18.05	12.84	15.40	5.28	5.55	5.65	6.08
2.5 --- 5	2.27	0.06	0.07	0.06	0.18	0.21	0.09	0.07
5 ---- 10	5.31	0.14	0.18	0.17	0.50	0.56	0.24	0.18
10 ---- 20	10.42	0.29	0.33	0.38	1.54	1.63	0.79	0.61
20 ---- 50	19.25	0.86	1.30	1.20	5.51	5.43	2.75	2.05
50 ----100	12.80	1.16	1.66	1.57	5.74	5.62	3.59	2.81
100----200	10.62	1.98	2.71	2.59	6.82	6.83	4.92	4.27
200----500	10.07	3.96	4.79	4.91	11.19	11.18	8.99	8.25
500----1000	5.14	4.11	4.79	4.88	10.17	10.07	8.88	8.22
1000---5000	6.25	12.60	15.00	14.76	24.04	23.71	23.47	22.97
5000& above	2.72	56.80	56.34	54.07	29.03	29.22	40.63	44.48
<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 (Rs. 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	6.05	4.55	-1.93	16.02	-5.41	7.25	19.08
2.5 --- 5	0.04	0.04	0.02	0.07	0.01	0.08	0.04
5 ---- 10	0.17	0.16	0.09	0.18	0.07	0.21	0.16
10 ---- 20	0.47	0.44	0.29	0.42	0.26	0.67	0.32
20 ---- 50	1.85	1.71	1.11	1.31	1.07	2.15	1.57
50 ----100	2.74	2.52	1.57	1.77	1.53	2.82	2.31
100----200	4.57	4.19	2.55	2.87	2.49	4.55	3.79
200----500	8.07	7.53	5.20	5.47	5.15	8.53	7.46
500----1000	7.22	6.89	5.46	5.52	5.45	7.54	6.19
1000---5000	18.93	18.66	17.51	15.90	17.82	21.80	15.58
5000& above	49.88	53.31	68.12	50.46	71.55	44.40	43.50
<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 Food Products (NIC: 10), that contributes to the total output by maximum of 14.09%, whereas this industry is contributing to the highest proportion in respect to the total output in the states like Andhra Pradesh (27.38%), Delhi (52.63%), Karnataka (15.75%), Madhya Pradesh(20.60%), Punjab(22.36%), Rajasthan (15.82%), Uttar Pradesh (24.49%) and West Bengal(22.19%).

Coke and Refined Petroleum Products (NIC: 19), the second highest in ranking in proportionate share of total output, accounts for 12.06% of the total output at all India level, whereas this industry accounts for the highest value of total output in five States namely, Assam (44.56%), Bihar(49.15%), Gujarat (27.21%), Kerala (29.54%) and Maharashtra (11.59%).

The third contributing (11.53%) industry to the total output of India is Basic Metals (NIC: 24), which accounts for the highest share of output in the state of Arunachal Pradesh (45.40%), Chhattisgarh (61.89%), Jharkhand (54.57%) and Odisha (62.91%).

Chemicals and Chemical Products (NIC: 20) accounts for 8.02% of the all India output and is the fourth highest in proportional share of total of output. State-wise, this industry group contributes maximum to the total output of Jammu & Kashmir (24.42%) and Puducherry (20.76%).

Motor Vehicles, Trailers and Semi-Trailers (NIC: 29) accounts for 7.74% of the total output at all India level and among the State/UTs, it has the highest share of total output in Haryana (22.99%), Tamil Nadu (21.59%) and Uttarakhand (12.65%) .

**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	13322	100.00	592	100.00
		TOTAL OF BELOW INDUSTRIES	12394	93.04	863	-----
		OTHER INDUSTRIES	12394	93.04	863	-----
Andhra Pradesh		TOTAL	26583434	100.00	3540646	100.00
		TOTAL OF BELOW INDUSTRIES	22097268	83.13	2727714	77.04
	10	FOOD PRODUCTS	7278158	27.38	659302	18.62
	24	BASIC METALS	3299231	12.41	369479	10.44
	19	COKE AND REFINED PETROLEUM PRODUCTS	2931269	11.03	277856	7.85
	20	CHEMICALS AND CHEMICAL PRODUCTS	2130755	8.02	331177	9.35
	23	OTHER NON-METALLIC MINERAL PRODUCTS	2006837	7.55	608793	17.19
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	1973279	7.42	240776	6.80
13	TEXTILES	1316383	4.95	204126	5.77	
26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	1161356	4.37	36205	1.02	
Arunachal Pradesh		TOTAL	114492	100.00	22804	100.00
		TOTAL OF BELOW INDUSTRIES	97975	85.57	20350	89.24
	24	BASIC METALS	51981	45.40	11302	49.56
	10	FOOD PRODUCTS	19446	16.98	4541	19.91
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	17409	15.21	946	4.15
11	BEVERAGES	9139	7.98	3561	15.62	
Assam		TOTAL	6293606	100.00	1486663	100.00
		TOTAL OF BELOW INDUSTRIES	5188734	82.44	1252285	84.24
	19	COKE AND REFINED PETROLEUM PRODUCTS	2804555	44.56	689747	46.40
	10	FOOD PRODUCTS	1410995	22.42	272812	18.35
	20	CHEMICALS AND CHEMICAL PRODUCTS	495458	7.87	216238	14.55
23	OTHER NON-METALLIC MINERAL PRODUCTS	477726	7.59	73488	4.94	
Bihar		TOTAL	4769275	100.00	641380	100.00
		TOTAL OF BELOW INDUSTRIES	3888826	81.54	378103	58.95
	19	COKE AND REFINED PETROLEUM PRODUCTS	2343955	49.15	216515	33.76
	10	FOOD PRODUCTS	1239087	25.98	144584	22.54
24	BASIC METALS	305784	6.41	17004	2.65	
Chandigarh		TOTAL	588511	100.00	84214	100.00
		TOTAL OF BELOW INDUSTRIES	502543	85.39	66905	79.45
		OTHER INDUSTRIES	382287	64.96	42558	50.54
	24	BASIC METALS	63935	10.86	7748	9.20
	28	MACHINERY AND EQUIPMENT N.E.C.	56321	9.57	16599	19.71

**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	10866893	100.00	1707652	100.00
		TOTAL OF BELOW INDUSTRIES	9084055	83.60	1384203	81.06
	24	BASIC METALS	6725273	61.89	989207	57.93
	10	FOOD PRODUCTS	1361406	12.53	99356	5.82
	23	OTHER NON-METALLIC MINERAL PRODUCTS	997376	9.18	295640	17.31
D&N Haveli		TOTAL	8845212	100.00	1121439	100.00
		TOTAL OF BELOW INDUSTRIES	7606213	85.98	768970	68.57
	13	TEXTILES	3566565	40.32	258614	23.06
	27	ELECTRICAL EQUIPMENT	1343922	15.19	128791	11.48
	24	BASIC METALS	1017195	11.50	11945	1.07
	22	RUBBER AND PLASTICS PRODUCTS	864605	9.77	167478	14.93
Daman & Diu		TOTAL	4464842	100.00	813383	100.00
		TOTAL OF BELOW INDUSTRIES	3636429	81.44	633696	77.91
	22	RUBBER AND PLASTICS PRODUCTS	1715111	38.41	271220	33.34
	20	CHEMICALS AND CHEMICAL PRODUCTS	630760	14.13	99931	12.29
	27	ELECTRICAL EQUIPMENT	491075	11.00	63756	7.84
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	313105	7.01	112994	13.89
	13	TEXTILES	296900	6.65	34570	4.25
Delhi		TOTAL	6715380	100.00	684411	100.00
		TOTAL OF BELOW INDUSTRIES	5445218	81.08	412762	60.31
	10	FOOD PRODUCTS	3534386	52.63	176025	25.72
		OTHER INDUSTRIES	898439	13.38	81563	11.92
	14	WEARING APPAREL	422449	6.29	85705	12.52
	27	ELECTRICAL EQUIPMENT	226860	3.38	31275	4.57
	20	CHEMICALS AND CHEMICAL PRODUCTS	205669	3.06	15696	2.29
	15	LEATHER AND RELATED PRODUCTS	157415	2.34	22498	3.29
Goa		TOTAL	4401225	100.00	1508029	100.00
		TOTAL OF BELOW INDUSTRIES	3703972	84.15	1327257	88.01
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	1482083	33.67	840843	55.76
	20	CHEMICALS AND CHEMICAL PRODUCTS	659576	14.99	162389	10.77
	27	ELECTRICAL EQUIPMENT	468937	10.65	87238	5.78
	24	BASIC METALS	324928	7.38	31125	2.06
	22	RUBBER AND PLASTICS PRODUCTS	311580	7.08	102616	6.80
	10	FOOD PRODUCTS	263262	5.98	66882	4.44
	26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	193606	4.40	36164	2.40

**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
Gujarat		TOTAL	122220075	100.00	19921069	100.00
		TOTAL OF BELOW INDUSTRIES	101795767	83.28	15915565	79.91
	19	COKE AND REFINED PETROLEUM PRODUCTS	33261960	27.21	5170569	25.96
	20	CHEMICALS AND CHEMICAL PRODUCTS	19379723	15.86	4233550	21.25
	10	FOOD PRODUCTS	13558621	11.09	812450	4.08
	24	BASIC METALS	8711919	7.13	1088969	5.47
	13	TEXTILES	7728962	6.32	1363883	6.85
	32	OTHER MANUFACTURING	5837879	4.78	429644	2.16
	28	MACHINERY AND EQUIPMENT N.E.C.	4625917	3.78	1149415	5.77
	23	OTHER INDUSTRIES	4471630	3.66	768765	3.86
		OTHER NON-METALLIC MINERAL PRODUCTS	4219156	3.45	898320	4.51
Haryana		TOTAL	50038700	100.00	7896018	100.00
		TOTAL OF BELOW INDUSTRIES	41597709	83.13	6288330	79.64
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	11503548	22.99	2197556	27.83
	24	BASIC METALS	7709989	15.41	404735	5.13
	19	COKE AND REFINED PETROLEUM PRODUCTS	6106118	12.20	1109764	14.05
	10	FOOD PRODUCTS	5210218	10.41	439103	5.56
	30	OTHER TRANSPORT EQUIPMENT	3173616	6.34	662855	8.39
	28	MACHINERY AND EQUIPMENT N.E.C.	2262074	4.52	469677	5.95
	13	TEXTILES	2142459	4.28	327521	4.15
	27	ELECTRICAL EQUIPMENT	1764903	3.53	341769	4.33
14	WEARING APPAREL	1724784	3.45	335350	4.25	
Himachal Pradesh		TOTAL	10859355	100.00	3212129	100.00
		TOTAL OF BELOW INDUSTRIES	8745969	80.55	2719619	84.67
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	2794119	25.73	1078945	33.59
	20	CHEMICALS AND CHEMICAL PRODUCTS	1723963	15.88	585106	18.22
	27	ELECTRICAL EQUIPMENT	1298627	11.96	206343	6.42
	13	TEXTILES	724698	6.67	108645	3.38
	10	FOOD PRODUCTS	666728	6.14	170596	5.31
		OTHER INDUSTRIES	633660	5.84	429697	13.38
	24	BASIC METALS	550646	5.07	52601	1.64
	22	RUBBER AND PLASTICS PRODUCTS	353528	3.26	87686	2.73
Jammu & Kashmir		TOTAL	3034727	100.00	782707	100.00
		TOTAL OF BELOW INDUSTRIES	2590319	85.36	683457	87.31
	20	CHEMICALS AND CHEMICAL PRODUCTS	741058	24.42	218570	27.92
	22	RUBBER AND PLASTICS PRODUCTS	384607	12.67	64764	8.27
		OTHER INDUSTRIES	326696	10.77	160893	20.56
	10	FOOD PRODUCTS	326462	10.76	38828	4.96
	24	BASIC METALS	313815	10.34	21795	2.78
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	271199	8.94	142617	18.22
	27	ELECTRICAL EQUIPMENT	226482	7.46	35990	4.60

**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
Jharkhand		TOTAL	12322755	100.00	2694184	100.00
		TOTAL OF BELOW INDUSTRIES	10407155	84.46	2164415	80.34
	24	BASIC METALS	6724219	54.57	1467243	54.46
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	2057352	16.70	286012	10.62
	19	COKE AND REFINED PETROLEUM PRODUCTS	848071	6.88	206665	7.67
		OTHER INDUSTRIES	777513	6.31	204495	7.59
Karnataka		TOTAL	50164690	100.00	9729160	100.00
		TOTAL OF BELOW INDUSTRIES	41212519	82.14	7432888	76.40
	10	FOOD PRODUCTS	7903089	15.75	1243025	12.78
	19	COKE AND REFINED PETROLEUM PRODUCTS	5648435	11.26	575211	5.91
	24	BASIC METALS	5565073	11.09	921767	9.47
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	4173884	8.32	738974	7.60
	32	OTHER MANUFACTURING	4117160	8.21	107107	1.10
	28	MACHINERY AND EQUIPMENT N.E.C.	3517455	7.01	1062142	10.92
	14	WEARING APPAREL	2001959	3.99	719820	7.40
	27	ELECTRICAL EQUIPMENT	1963673	3.91	385886	3.97
		OTHER INDUSTRIES	1744516	3.48	492616	5.06
	26	COMPUTER, ELECTRONIC AND OPTICAL PRODUCTS	1597544	3.18	415564	4.27
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	1532880	3.06	488211	5.02
30	OTHER TRANSPORT EQUIPMENT	1446851	2.88	282565	2.90	
Kerala		TOTAL	14318717	100.00	2236189	100.00
		TOTAL OF BELOW INDUSTRIES	11830774	82.63	1525554	68.23
	19	COKE AND REFINED PETROLEUM PRODUCTS	4230204	29.54	335298	14.99
	10	FOOD PRODUCTS	3010836	21.03	309479	13.84
	32	OTHER MANUFACTURING	1673169	11.69	183723	8.22
	22	RUBBER AND PLASTICS PRODUCTS	1036256	7.24	220301	9.85
	20	CHEMICALS AND CHEMICAL PRODUCTS	904458	6.32	362628	16.22
	24	BASIC METALS	503017	3.51	27211	1.22
		OTHER INDUSTRIES	472834	3.30	86914	3.89
Madhya Pradesh		TOTAL	20467293	100.00	3967632	100.00
		TOTAL OF BELOW INDUSTRIES	16573562	80.99	3084061	77.73
	10	FOOD PRODUCTS	4216428	20.60	323439	8.15
	19	COKE AND REFINED PETROLEUM PRODUCTS	2394106	11.70	375011	9.45
		OTHER INDUSTRIES	1929862	9.43	704014	17.74
	13	TEXTILES	1730761	8.46	394436	9.94
	24	BASIC METALS	1579822	7.72	176022	4.44
	23	OTHER NON-METALLIC MINERAL PRODUCTS	1322153	6.46	314511	7.93
	22	RUBBER AND PLASTICS PRODUCTS	1155401	5.65	205363	5.18
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	1143882	5.59	244355	6.16
	20	CHEMICALS AND CHEMICAL PRODUCTS	1101147	5.38	346910	8.74



**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
Maharashtra		TOTAL	107497036	100.00	24215165	100.00
		TOTAL OF BELOW INDUSTRIES	86894021	80.83	19620471	81.02
	19	COKE AND REFINED PETROLEUM PRODUCTS	12461586	11.59	4715702	19.47
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	11710280	10.89	2045166	8.45
	10	FOOD PRODUCTS	11560411	10.75	1620429	6.69
	24	BASIC METALS	10865283	10.11	1275664	5.27
	20	CHEMICALS AND CHEMICAL PRODUCTS	9566108	8.90	2278858	9.41
	28	MACHINERY AND EQUIPMENT N.E.C.	7118844	6.62	1794290	7.41
	27	ELECTRICAL EQUIPMENT	5580694	5.19	1305068	5.39
	22	RUBBER AND PLASTICS PRODUCTS	5065108	4.71	1153295	4.76
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	4554260	4.24	1614469	6.67
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	4307124	4.01	995913	4.11
	13	TEXTILES	4104323	3.82	821617	3.39
Manipur		TOTAL	36295	100.00	8990	100.00
		TOTAL OF BELOW INDUSTRIES	32020	88.23	8013	89.13
	23	OTHER NON-METALLIC MINERAL PRODUCTS	20669	56.95	6001	66.75
		OTHER INDUSTRIES	7890	21.74	1424	15.84
	10	FOOD PRODUCTS	3461	9.54	588	6.54
Meghalaya		TOTAL	395194	100.00	82588	100.00
		TOTAL OF BELOW INDUSTRIES	320350	81.06	65219	78.97
	23	OTHER NON-METALLIC MINERAL PRODUCTS	191802	48.53	58424	70.74
	24	BASIC METALS	99313	25.13	4771	5.78
	11	BEVERAGES	29235	7.40	2024	2.45
Nagaland		TOTAL	51746	100.00	13997	100.00
		TOTAL OF BELOW INDUSTRIES	47530	91.86	11888	84.93
	16	WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS	26783	51.76	10199	72.87
		OTHER INDUSTRIES	12294	23.76	1060	7.57
	10	FOOD PRODUCTS	8453	16.34	629	4.49
Odisha		TOTAL	15109219	100.00	3083574	100.00
		TOTAL OF BELOW INDUSTRIES	12510278	82.80	2490059	80.76
	24	BASIC METALS	9504559	62.91	1914243	62.08
		OTHER INDUSTRIES	1105836	7.32	190413	6.18
	20	CHEMICALS AND CHEMICAL PRODUCTS	1041620	6.89	336314	10.91
10	FOOD PRODUCTS	858263	5.68	49089	1.59	

**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
Puducherry		TOTAL	2264375	100.00	546734	100.00
		TOTAL OF BELOW INDUSTRIES	1918205	84.72	453245	82.92
	20	CHEMICALS AND CHEMICAL PRODUCTS	470007	20.76	188074	34.40
	26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	276044	12.19	16107	2.95
	22	RUBBER AND PLASTICS PRODUCTS	268727	11.87	82744	15.13
	24	BASIC METALS	224372	9.91	5604	1.03
	10	FOOD PRODUCTS	194271	8.58	40005	7.32
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	137705	6.08	45737	8.37
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	123205	5.44	22669	4.15
	27	ELECTRICAL EQUIPMENT	115253	5.09	24044	4.40
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	108621	4.80	28261	5.17	
Punjab		TOTAL	18921535	100.00	2914334	100.00
		TOTAL OF BELOW INDUSTRIES	15196940	80.31	2121696	72.80
	10	FOOD PRODUCTS	4230571	22.36	550160	18.88
	13	TEXTILES	2914697	15.40	402675	13.82
	24	BASIC METALS	1924664	10.17	155120	5.32
	28	MACHINERY AND EQUIPMENT N.E.C.	1576284	8.33	374201	12.84
		OTHER INDUSTRIES	1102588	5.83	82983	2.85
	30	OTHER TRANSPORT EQUIPMENT	1078519	5.70	147867	5.07
	14	WEARING APPAREL	986720	5.21	157085	5.39
	20	CHEMICALS AND CHEMICAL PRODUCTS	698169	3.69	106447	3.65
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	684728	3.62	145158	4.98	
Rajasthan		TOTAL	27054565	100.00	5022453	100.00
		TOTAL OF BELOW INDUSTRIES	21686040	80.16	3737968	74.42
	10	FOOD PRODUCTS	4279861	15.82	238438	4.75
	23	OTHER NON-METALLIC MINERAL PRODUCTS	3197934	11.82	949362	18.90
	20	CHEMICALS AND CHEMICAL PRODUCTS	2799626	10.35	486262	9.68
	13	TEXTILES	2743515	10.14	445043	8.86
	24	BASIC METALS	2307498	8.53	257288	5.12
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	1859461	6.87	496316	9.88
	27	ELECTRICAL EQUIPMENT	1841583	6.81	232610	4.63
		OTHER INDUSTRIES	1599930	5.91	385017	7.67
22	RUBBER AND PLASTICS PRODUCTS	1056632	3.91	247632	4.93	

**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
Sikkim		TOTAL	1677216	100.00	1027918	100.00
		TOTAL OF BELOW INDUSTRIES	1434290	85.52	968765	94.25
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	1434290	85.52	968765	94.25
Tamilnadu		TOTAL	76552431	100.00	14304411	100.00
		TOTAL OF BELOW INDUSTRIES	62437383	81.55	11023285	77.05
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	16528584	21.59	2865704	20.03
	10	FOOD PRODUCTS	8658717	11.31	841238	5.88
	13	TEXTILES	7685469	10.04	1349162	9.43
	28	MACHINERY AND EQUIPMENT N.E.C.	6400068	8.36	1348256	9.43
	24	BASIC METALS	4282536	5.59	704553	4.93
	14	WEARING APPAREL	4175776	5.45	934686	6.53
	19	COKE AND REFINED PETROLEUM PRODUCTS	3416079	4.46	357940	2.50
		OTHER INDUSTRIES	3108385	4.06	785894	5.49
	20	CHEMICALS AND CHEMICAL PRODUCTS	2918077	3.81	646481	4.52
	RUBBER AND PLASTICS PRODUCTS	2714733	3.55	629578	4.40	
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	2548959	3.33	559793	3.91	
Telangana		TOTAL	20381796	100.00	4220077	100.00
		TOTAL OF BELOW INDUSTRIES	16934091	83.09	3415214	80.92
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	3807640	18.68	1447432	34.30
	10	FOOD PRODUCTS	2432677	11.94	247424	5.86
	27	ELECTRICAL EQUIPMENT	1888654	9.27	276985	6.56
		OTHER INDUSTRIES	1718926	8.43	210172	4.98
	23	OTHER NON-METALLIC MINERAL PRODUCTS	1533333	7.52	428812	10.16
	01	COTTON GINNING,CLEANING AND BAILING (01632) ; SEED PROCESSING FOR PROPAGATION (01640)	1369207	6.72	109468	2.59
	24	BASIC METALS	1040776	5.11	93352	2.21
	22	RUBBER AND PLASTICS PRODUCTS	870538	4.27	181935	4.31
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	823096	4.04	141216	3.35
	28	MACHINERY AND EQUIPMENT N.E.C.	755781	3.71	162991	3.86
	20	CHEMICALS AND CHEMICAL PRODUCTS	693463	3.40	115427	2.74
Tripura		TOTAL	137953	100.00	38959	100.00
		TOTAL OF BELOW INDUSTRIES	117382	85.09	35531	91.21
	23	OTHER NON-METALLIC MINERAL PRODUCTS	45762	33.17	18524	47.55
	10	FOOD PRODUCTS	44226	32.06	13445	34.51
	22	RUBBER AND PLASTICS PRODUCTS	17023	12.34	2901	7.45
	19	COKE AND REFINED PETROLEUM PRODUCTS	10371	7.52	661	1.70

**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
Uttar Pradesh		TOTAL	49552268	100.00	10100678	100.00
		TOTAL OF BELOW INDUSTRIES	40736139	82.22	8055662	79.76
	10	FOOD PRODUCTS	12135419	24.49	1205820	11.94
	19	COKE AND REFINED PETROLEUM PRODUCTS	5954920	12.02	2653819	26.27
	26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	5708829	11.52	851996	8.44
	20	CHEMICALS AND CHEMICAL PRODUCTS	2870926	5.79	522193	5.17
	24	BASIC METALS	2628752	5.31	312795	3.10
		OTHER INDUSTRIES	2134697	4.31	496288	4.91
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	1927346	3.89	398375	3.94
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	1872111	3.78	414209	4.10
	22	RUBBER AND PLASTICS PRODUCTS	1544071	3.12	281462	2.79
	28	MACHINERY AND EQUIPMENT N.E.C.	1440963	2.91	348257	3.45
	15	LEATHER AND RELATED PRODUCTS	1285775	2.59	254294	2.52
	14	WEARING APPAREL	1232330	2.49	316154	3.13
Uttarakhand		TOTAL	21013696	100.00	5465503	100.00
		TOTAL OF BELOW INDUSTRIES	16939618	80.62	4384330	80.22
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	2658102	12.65	621482	11.37
	30	OTHER TRANSPORT EQUIPMENT	2189796	10.42	518997	9.50
	20	CHEMICALS AND CHEMICAL PRODUCTS	2091798	9.95	808698	14.80
	22	RUBBER AND PLASTICS PRODUCTS	1821265	8.67	359059	6.57
	27	ELECTRICAL EQUIPMENT	1661666	7.91	360343	6.59
	32	OTHER MANUFACTURING	1472489	7.01	159132	2.91
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	1418803	6.75	490909	8.98
	24	BASIC METALS	1266878	6.03	461238	8.44
	28	MACHINERY AND EQUIPMENT N.E.C.	1234789	5.88	341243	6.24
	10	FOOD PRODUCTS	1124032	5.35	263229	4.82
	West Bengal		TOTAL	28823593	100.00	3709369
		TOTAL OF BELOW INDUSTRIES	23587303	81.84	2742044	73.91
10		FOOD PRODUCTS	6397374	22.19	495601	13.36
24		BASIC METALS	5771611	20.02	300570	8.10
19		COKE AND REFINED PETROLEUM PRODUCTS	3045852	10.57	247830	6.68
20		CHEMICALS AND CHEMICAL PRODUCTS	2911301	10.10	584589	15.76
13		TEXTILES	1451935	5.04	353210	9.52
25		FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	1120638	3.89	162263	4.37
27		ELECTRICAL EQUIPMENT	1103016	3.83	180307	4.86
		OTHER INDUSTRIES	970035	3.37	285851	7.71
15		LEATHER AND RELATED PRODUCTS	815541	2.83	131823	3.55

**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
All India		TOTAL	726551423	100.00	136805049	100.00
		TOTAL OF BELOW INDUSTRIES	586685673	80.73	109114302	79.76
	10	FOOD PRODUCTS	102388166	14.09	10393631	7.60
	19	COKE AND REFINED PETROLEUM PRODUCTS	87632800	12.06	17612735	12.87
	24	BASIC METALS	83762775	11.53	11110383	8.12
	20	CHEMICALS AND CHEMICAL PRODUCTS	58300834	8.02	13613122	9.95
	29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	56255848	7.74	10504600	7.68
	13	TEXTILES	39294883	5.41	6634738	4.85
	28	MACHINERY AND EQUIPMENT N.E.C.	32135557	4.42	7800727	5.70
	27	ELECTRICAL EQUIPMENT	27860902	3.83	5187478	3.79
	21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	27195853	3.74	9754492	7.13
	22	RUBBER AND PLASTICS PRODUCTS	26226547	3.61	5497864	4.02
	23	OTHER NON-METALLIC MINERAL PRODUCTS	25229241	3.47	6862180	5.02
	25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	20402267	2.81	4142352	3.03

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

**12.1** Statement 19 gives the shares of major State/UTs contributing at least 80% of the total output within the major industry divisions of manufacturing sector. Within each such industry division, State/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, Bailing(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 73.12% of the total output for the industry. Gujarat, Uttar Pradesh and Maharashtra are the top contributors in the Food industry (NIC: 10) by contributing 36.38% of total output of that industry. In the case of Coke and Refined Petroleum Products (NIC: 19), Gujarat, Maharashtra and Haryana are the top three contributors to total output, accounting for 59.15% taken together. The major contributors for Chemicals and Chemical Products (NIC: 20) are Gujarat, Maharashtra and Tamilnadu and these states accounted 54.66% of total output of that industry. In Basic Metals (NIC: 24), the major states are Maharashtra, Odisha and Gujarat by capturing 34.72% of total output of that industry. In Motor Vehicles, Trailers and Semi-Trailers (NIC: 29) industry, the top three States are Tamilnadu, Maharashtra and Haryana capturing 70.65% of the total output in that industry.

**Statement 19: Share 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
01	COTTON GINNING,CLEANING AND BAILING (01632); SEED PROCESSING FOR PROPAGATION (01640)	All India	7412237	100.00	446332	100.00
		TOTAL OF BELOW STATE/UTs	6280986	84.73	379804	85.10
		Gujarat	2129048	28.72	68342	15.31
		Maharashtra	1921857	25.93	165443	37.07
		Telangana	1369207	18.47	109468	24.53
		Karnataka	499553	6.74	23774	5.33
		Madhya Pradesh	361321	4.87	12777	2.86
08	SALT PRODUCTION BY EVAPORATION OF SEA WATER OR OTHER SALINE WATERS (08932)	All India	418382	100.00	183490	100.00
		TOTAL OF BELOW STATE/UTs	409280	97.82	178508	97.28
		Gujarat	409280	97.82	178508	97.28
10	FOOD PRODUCTS	All India	102388166	100.00	10393631	100.00
		TOTAL OF BELOW STATES	85428867	83.44	8429005	81.08
		Gujarat	13558621	13.24	812450	7.82
		Uttar Pradesh	12135419	11.85	1205820	11.60
		Maharashtra	11560411	11.29	1620429	15.59
		Tamilnadu	8658717	8.46	841238	8.09
		Karnataka	7903089	7.72	1243025	11.96
		Andhra Pradesh	7278158	7.11	659302	6.34
		West Bengal	6397374	6.25	495601	4.77
		Haryana	5210218	5.09	439103	4.22
		Rajasthan	4279861	4.18	238438	2.29
		Punjab	4230571	4.13	550160	5.29
		Madhya Pradesh	4216428	4.12	323439	3.11
11	BEVERAGES	All India	7110789	100.00	1746095	100.00
		TOTAL OF BELOW STATES	5995610	84.33	1457509	83.47
		Maharashtra	1132103	15.92	474124	27.15
		Uttar Pradesh	830149	11.67	202550	11.60
		Tamilnadu	596298	8.39	108265	6.20
		Karnataka	559452	7.87	134402	7.70
		Andhra Pradesh	459221	6.46	78521	4.50
		Punjab	443726	6.24	64587	3.70
		Telangana	443418	6.24	94644	5.42
		Haryana	430902	6.06	77898	4.46
		Rajasthan	412266	5.80	91165	5.22
		West Bengal	365350	5.14	64944	3.72
		Madhya Pradesh	322725	4.54	66409	3.80

**Statement 19: Share 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
12	TOBACCO PRODUCTS	All India	4404318	100.00	1704257	100.00
		TOTAL OF BELOW STATES	3696244	83.92	1453630	85.30
		Uttar Pradesh	815641	18.52	426183	25.01
		Gujarat	752562	17.09	149326	8.76
		Karnataka	632316	14.36	376483	22.09
		West Bengal	566453	12.86	78833	4.63
		Maharashtra	429966	9.76	270900	15.90
		Telangana	265249	6.02	137905	8.09
		Andhra Pradesh	234057	5.31	14000	0.82
13	TEXTILES	All India	39294883	100.00	6634738	100.00
		TOTAL OF BELOW STATES	32616751	83.00	5362951	80.84
		Gujarat	7728962	19.67	1363883	20.56
		Tamilnadu	7685469	19.56	1349162	20.33
		Maharashtra	4104323	10.44	821617	12.38
		Dadra and Nagar Haveli	3566565	9.08	258614	3.90
		Punjab	2914697	7.42	402675	6.07
		Rajasthan	2743515	6.98	445043	6.71
		Haryana	2142459	5.45	327521	4.94
		Madhya Pradesh	1730761	4.40	394436	5.95
14	WEARING APPAREL	All India	12838456	100.00	3133021	100.00
		TOTAL OF BELOW STATES	10849079	84.51	2627224	83.85
		Tamilnadu	4175776	32.53	934686	29.83
		Karnataka	2001959	15.59	719820	22.98
		Haryana	1724784	13.43	335350	10.70
		Uttar Pradesh	1232330	9.60	316154	10.09
		Punjab	986720	7.69	157085	5.01
		Maharashtra	727510	5.67	164129	5.24
15	LEATHER AND RELATED PRODUCTS	All India	5756687	100.00	1151879	100.00
		TOTAL OF BELOW STATES	4622327	80.30	923665	80.18
		Tamilnadu	1633019	28.37	352964	30.64
		Uttar Pradesh	1285775	22.34	254294	22.08
		West Bengal	815541	14.17	131823	11.44
		Haryana	697196	12.11	132127	11.47
Karnataka	190796	3.31	52457	4.55		



**Statement 19: Share 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
16	WOOD AND PRODUCTS OF WOOD AND CORK, EXCEPT FURNITURE; ARTICLES OF STRAW AND PLAITING MATERIALS	All India	2350437	100.00	462990	100.00
		TOTAL OF BELOW STATES	1887851	80.32	370770	80.08
		Gujarat	419970	17.87	69081	14.92
		Tamilnadu	245510	10.45	30029	6.49
		Rajasthan	234452	9.97	55566	12.00
		West Bengal	228745	9.73	57979	12.52
		Uttarakhand	203928	8.68	57980	12.52
		Uttar Pradesh	166859	7.10	38416	8.30
		Kerala	143811	6.12	25841	5.58
		Haryana	134715	5.73	15380	3.32
		Maharashtra	109861	4.67	20498	4.43
17	PAPER AND PAPER PRODUCTS	All India	9837344	100.00	1675155	100.00
		TOTAL OF BELOW STATES	8071804	82.05	1359663	81.17
		Maharashtra	1493437	15.18	255293	15.24
		Gujarat	1486481	15.11	193487	11.55
		Uttar Pradesh	1056727	10.74	138285	8.26
		Tamilnadu	1037946	10.55	174880	10.44
		Uttarakhand	630256	6.41	135365	8.08
		Punjab	546501	5.56	104575	6.24
		Karnataka	520810	5.29	109313	6.53
		Telangana	506463	5.15	118111	7.05
		Haryana	422936	4.30	69079	4.12
		Andhra Pradesh	370247	3.76	61275	3.66
18	PRINTING AND REPRODUCTION OF RECORDED MEDIA	All India	3910663	100.00	1144076	100.00
		TOTAL OF BELOW STATES	3221729	82.38	954045	83.38
		Maharashtra	886278	22.66	263207	23.01
		Tamilnadu	587114	15.01	153797	13.44
		Uttar Pradesh	537677	13.75	147746	12.91
		Karnataka	358053	9.16	126957	11.10
		Kerala	224894	5.75	106879	9.34
		Haryana	185493	4.74	39959	3.49
		Gujarat	182047	4.66	47306	4.13
		Delhi	134619	3.44	29076	2.54
		Telangana	125554	3.21	39118	3.42

**Statement 19: Share 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
19	COKE AND REFINED PETROLEUM PRODUCTS	All India	87632800	100.00	17612735	100.00
		TOTAL OF BELOW STATES	71079302	81.13	14918303	84.70
		Gujarat	33261960	37.96	5170569	29.36
		Maharashtra	12461586	14.22	4715702	26.77
		Haryana	6106118	6.97	1109764	6.30
		Uttar Pradesh	5954920	6.80	2653819	15.07
		Karnataka	5648435	6.45	575211	3.27
		Kerala	4230204	4.83	335298	1.90
		Tamilnadu	3416079	3.90	357940	2.03
20	CHEMICALS AND CHEMICAL PRODUCTS	All India	58300834	100.00	13613122	100.00
		TOTAL OF BELOW STATES	47811924	82.01	10772727	79.13
		Gujarat	19379723	33.24	4233550	31.10
		Maharashtra	9566108	16.41	2278858	16.74
		Tamilnadu	2918077	5.01	646481	4.75
		West Bengal	2911301	4.99	584589	4.29
		Uttar Pradesh	2870926	4.92	522193	3.84
		Rajasthan	2799626	4.80	486262	3.57
		Andhra Pradesh	2130755	3.65	331177	2.43
		Uttrakhand	2091798	3.59	808698	5.94
		Himachal Pradesh	1723963	2.96	585106	4.30
		Karnataka	1419647	2.44	295813	2.17
21	PHARMACEUTICALS, MEDICINAL CHEMICAL AND BOTANICAL PRODUCTS	All India	27195853	100.00	9754492	100.00
		TOTAL OF BELOW STATES	22854041	84.04	8430307	86.42
		Maharashtra	4554260	16.75	1614469	16.55
		Gujarat	3856687	14.18	1259957	12.92
		Telangana	3807640	14.00	1447432	14.84
		Himachal Pradesh	2794119	10.27	1078945	11.06
		Andhra Pradesh	1973279	7.26	240776	2.47
		Karnataka	1532880	5.64	488211	5.00
		Goa	1482083	5.45	840843	8.62
		Sikkim	1434290	5.27	968765	9.93
Uttrakhand	1418803	5.22	490909	5.03		

**Statement 19: Share 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
22	RUBBER AND PLASTICS PRODUCTS	All India	26226547	100.00	5497864	100.00
		TOTAL OF BELOW STATES	21223164	80.92	4504622	81.94
		Maharashtra	5065108	19.31	1153295	20.98
		Gujarat	2993448	11.41	627267	11.41
		Tamilnadu	2714733	10.35	629578	11.45
		Uttarakhand	1821265	6.94	359059	6.53
		Daman and Diu	1715111	6.54	271220	4.93
		Uttar Pradesh	1544071	5.89	281462	5.12
		Karnataka	1250601	4.77	327510	5.96
		Madhya Pradesh	1155401	4.41	205363	3.74
		Rajasthan	1056632	4.03	247632	4.50
		Kerala	1036256	3.95	220301	4.01
		Telangana	870538	3.32	181935	3.31
23	OTHER NON-METALLIC MINERAL PRODUCTS	All India	25229241	100.00	6862180	100.00
		TOTAL OF BELOW STATES	20717500	82.11	5530129	80.58
		Gujarat	4219156	16.72	898320	13.09
		Rajasthan	3197934	12.68	949362	13.83
		Maharashtra	2116225	8.39	653434	9.52
		Tamilnadu	2036386	8.07	601295	8.76
		Andhra Pradesh	2006837	7.95	608793	8.87
		Telangana	1533333	6.08	428812	6.25
		Madhya Pradesh	1322153	5.24	314511	4.58
		Karnataka	1308966	5.19	317297	4.62
		Uttar Pradesh	1188246	4.71	304462	4.44
		Chattisgarh	997376	3.95	295640	4.31
		West Bengal	790888	3.13	158203	2.31
24	BASIC METALS	All India	83762775	100.00	11110383	100.00
		TOTAL OF BELOW STATES	69159693	82.56	9436430	84.94
		Maharashtra	10865283	12.97	1275664	11.48
		Odisha	9504559	11.35	1914243	17.23
		Gujarat	8711919	10.4	1088969	9.8
		Haryana	7709989	9.2	404735	3.64
		Chattisgarh	6725273	8.03	989207	8.9
		Jharkhand	6724219	8.03	1467243	13.21
		West Bengal	5771611	6.89	300570	2.71
		Karnataka	5565073	6.64	921767	8.3
		Tamilnadu	4282536	5.11	704553	6.34
		Andhra Pradesh	3299231	3.94	369479	3.33

**Statement 19: Share 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
25	FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND EQUIPMENT	All India	20402267	100.00	4142352	100.00
		TOTAL OF BELOW STATES	16693497	81.82	3459315	83.52
		Maharashtra	4307124	21.11	995913	24.04
		Gujarat	2576092	12.63	492873	11.9
		Tamilnadu	2548959	12.49	559793	13.51
		Uttar Pradesh	1927346	9.45	398375	9.62
		Haryana	1527173	7.49	245472	5.93
		West Bengal	1120638	5.49	162263	3.92
		Karnataka	999232	4.9	243370	5.88
		Rajasthan	863837	4.23	220040	5.31
	Telangana	823096	4.03	141216	3.41	
26	COMPUTER,ELECTRONIC AND OPTICAL PRODUCTS	All India	16490030	100.00	3219339	100.00
		TOTAL OF BELOW STATES	13515848	81.96	2595980	80.62
		Uttar Pradesh	5708829	34.62	851996	26.46
		Tamilnadu	2068305	12.54	543552	16.88
		Maharashtra	1997510	12.11	454669	14.12
		Karnataka	1597544	9.69	415564	12.91
		Andhra Pradesh	1161356	7.04	36205	1.12
		Uttrakhand	982304	5.96	293994	9.13
27	ELECTRICAL EQUIPMENT	All India	27860902	100.00	5187478	100.00
		TOTAL OF BELOW STATES	23311105	83.66	4290169	82.72
		Maharashtra	5580694	20.03	1305068	25.16
		Gujarat	2113892	7.59	346487	6.68
		Karnataka	1963673	7.05	385886	7.44
		Telangana	1888654	6.78	276985	5.34
		Rajasthan	1841583	6.61	232610	4.48
		Haryana	1764903	6.33	341769	6.59
		Uttrakhand	1661666	5.96	360343	6.95
		Tamilnadu	1538058	5.52	326587	6.30
		Dadra and Nagar Haveli	1343922	4.82	128791	2.48
		Himachal Pradesh	1298627	4.66	206343	3.98
		Uttar Pradesh	1212417	4.35	198993	3.84
West Bengal	1103016	3.96	180307	3.48		

**Statement 19: Share 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
28	MACHINERY AND EQUIPMENT N.E.C.	All India	32135557	100.00	7800727	100.00
		TOTAL OF BELOW STATES	26941605	83.85	6546238	83.91
		Maharashtra	7118844	22.15	1794290	23.00
		Tamilnadu	6400068	19.92	1348256	17.28
		Gujarat	4625917	14.40	1149415	14.73
		Karnataka	3517455	10.95	1062142	13.62
		Haryana	2262074	7.04	469677	6.02
		Punjab	1576284	4.91	374201	4.80
Uttar Pradesh	1440963	4.48	348257	4.46		
29	MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS	All India	56255848	100.00	10504600	100.00
		TOTAL OF BELOW STATES	46574398	82.80	8468882	80.62
		Tamilnadu	16528584	29.38	2865704	27.28
		Maharashtra	11710280	20.82	2045166	19.47
		Haryana	11503548	20.45	2197556	20.92
		Karnataka	4173884	7.42	738974	7.03
		Uttrakhand	2658102	4.73	621482	5.92
30	OTHER TRANSPORT EQUIPMENT	All India	16037915	100.00	3334959	100.00
		TOTAL OF BELOW STATES	13540248	84.42	2988291	89.61
		Maharashtra	3286090	20.49	849020	25.46
		Haryana	3173616	19.79	662855	19.88
		Uttrakhand	2189796	13.65	518997	15.56
		Karnataka	1446851	9.02	282565	8.47
		Tamilnadu	1407001	8.77	273023	8.19
		Punjab	1078519	6.72	147867	4.43
		Rajasthan	958375	5.98	253964	7.62
31	FURNITURE	All India	1868546	100.00	320941	100.00
		TOTAL OF BELOW STATES	1528368	81.79	255216	79.51
		Maharashtra	374133	20.02	52641	16.40
		Telangana	308657	16.52	33829	10.54
		Karnataka	274506	14.69	55398	17.26
		Rajasthan	209710	11.22	37080	11.55
		Uttar Pradesh	183821	9.84	31321	9.76
		Tamilnadu	113601	6.08	30212	9.41
		West Bengal	63940	3.42	14735	4.59

**Statement 19: Share 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	20331934	100.00	2208028	100.00
		TOTAL OF BELOW STATES	16478319	81.04	1506416	68.23
		Gujarat	5837879	28.71	429644	19.46
		Karnataka	4117160	20.25	107107	4.85
		Maharashtra	3342754	16.44	512683	23.22
		Kerala	1673169	8.23	183723	8.32
		Tamilnadu	1507357	7.41	273259	12.38
33	REPAIR AND INSTALLATION OF MACHINERY AND EQUIPMENT	All India	789727	100.00	286871	100.00
		TOTAL OF BELOW STATES	669448	84.78	259413	90.44
		Maharashtra	212803	26.95	79512	27.72
		Rajasthan	114247	14.47	82679	28.82
		Tamilnadu	112105	14.20	26149	9.12
		Telangana	55495	7.03	10463	3.65
		Gujarat	51677	6.54	11241	3.92
		Karnataka	42444	5.37	23826	8.31
		Andhra Pradesh	40585	5.14	13465	4.69
		West Bengal	40092	5.08	12078	4.21
38	WASTE COLLECTION,TREATMENT AND DISPOSAL ACTIVITIES; MATERIALS RECOVERY	All India	815504	100.00	94490	100.00
		TOTAL OF BELOW STATES	689834	84.59	60332	63.85
		Gujarat	535038	65.61	31190	33.01
		Karnataka	54886	6.73	6561	6.94
		Tamilnadu	50479	6.19	11373	12.04
		Maharashtra	49431	6.06	11208	11.86
58	PUBLISHING ACTIVITIES	All India	694966	100.00	260065	100.00
		TOTAL OF BELOW STATES	579409	83.39	218633	84.07
		Bihar	103802	14.94	35321	13.58
		West Bengal	88877	12.79	39305	15.11
		Maharashtra	75636	10.88	35192	13.53
		Kerala	68639	9.88	30940	11.90
		Telangana	64404	9.27	16443	6.32
		Gujarat	60519	8.71	21998	8.46
		Tamilnadu	52817	7.60	26987	10.38
		Andhra Pradesh	34718	5.00	3303	1.27
		Rajasthan	29997	4.32	9144	3.52

**Statement 19: Share 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
	ALL INDUSTRIES	All India	726551423	100.00	136805049	100.00
		TOTAL OF BELOW STATES	600349577	82.64	112092181	81.93
		Gujarat	122220075	16.82	19921069	14.56
		Maharashtra	107497036	14.80	24215165	17.70
		Tamilnadu	76552431	10.54	14304411	10.46
		Karnataka	50164690	6.90	9729160	7.11
		Haryana	50038700	6.89	7896018	5.77
		Uttar Pradesh	49552268	6.82	10100678	7.38
		West Bengal	28823593	3.97	3709369	2.71
		Rajasthan	27054565	3.72	5022453	3.67
		Andhra Pradesh	26583434	3.66	3540646	2.59
		Uttrakhand	21013696	2.89	5465503	4.00
		Madhya Pradesh	20467293	2.82	3967632	2.90
		Telangana	20381796	2.81	4220077	3.08



# भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II — खण्ड 1

PART II — Section 1

प्राधिकार से प्रकाशित

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

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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,—

(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

Restrictions on use of information.

(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.



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;

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- (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.

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**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.

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**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

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EXTRAORDINARY

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PART II — Section 1

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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<sup>th</sup> 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<sup>th</sup> State **as a whole** based on the central sample is given by:

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

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.,  $\text{State } \hat{Y}'_{is} = \frac{1}{2} \sum_{m=2,4} \text{State } \hat{Y}'_{ism}$ , where  $\text{State } \hat{Y}'_{is}$  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

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

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  ${}^{\text{Pooled}}\hat{Y}'_{is} = \frac{1}{4} \sum_{m=1}^4 {}^s\hat{Y}'_{ism}$ . In some cases, in a particular stratum one or more sub-samples

<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.

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  $i^{th}$  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:

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

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:

$$\widehat{Var}(\hat{Y}) = \sum_i \widehat{Var}(\hat{Y}_i) \dots \dots \dots (10)$$

#### 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,

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

$${}^c\hat{Y}_s = \frac{1}{2} \sum_{m=1,3} \hat{Y}_{sm}, \quad {}^c\hat{X}_s = \frac{1}{2} \sum_{m=1,3} \hat{X}_{sm}, \quad \hat{R} = \text{Central } \hat{Y} / \text{Central } \hat{X}, \text{ and } \hat{Y}_{sm} \text{ and } \hat{X}_{sm} \text{ are estimates of}$$

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,

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

$$\text{where } {}^c\hat{Y}_{is} = \frac{1}{2} \sum_{m=1,3} \hat{Y}_{ism}, \quad {}^c\hat{X}_{is} = \frac{1}{2} \sum_{m=1,3} \hat{X}_{ism}, \quad \hat{R}_i = \text{Central } \hat{Y}_i / \text{Central } \hat{X}_i, \text{ and } \hat{Y}_{ism} \text{ and } \hat{X}_{ism} \text{ are estimates of}$$

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),

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



where  ${}^s\hat{Y}_{is} = \frac{1}{2} \sum_{m=2,4} \hat{Y}_{ism}$ ,  ${}^s\hat{X}_{is} = \frac{1}{2} \sum_{m=2,4} \hat{X}_{ism}$ ,  ${}^s\hat{R}_i = \text{State}\hat{Y}_i / \text{State}\hat{X}_i$ ;  $\hat{Y}_{ism}$  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  $\text{State}\hat{X}_i$  and  $\text{State}\hat{Y}_i$  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,

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

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 :

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

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  $\hat{R}_i = \text{Pooled}\hat{Y}_i / \text{Pooled}\hat{X}_i$ .

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:**

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

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

**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 4.8.1. 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 4.8.2, is to be followed in such cases.

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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 2016-2017 (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 ----	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  ----- (cols. 3-8)	Closing as on  ----- (cols. 7-11)
			Due to revaluation	Actual additions								
(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)**		
<p><i>Note:</i></p> <p>* Give reasons in the footnote for negative values and abnormal verification in opening and closing values.</p> <p>** If outstanding loans include interest, a footnote may be given</p>			

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 2016-17?	
2.	Did the factory use the internet during FY 2016-17?	
3.	Did the factory have a website as on the date of survey?	
4.	Did the factory receive orders via the internet during FY 2016-17?	
5.	Did the factory place orders for business purpose via the internet during FY 2016-17?	
6.	Did the factory connect to the internet either by a. Narrowband or b. Fixed broadband or c. Mobile broadband during FY 2016-17?	
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?	

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<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. <b>Please refer to detailed instructions also for further guidance.</b></i>

**Annual Survey of Industries 2016-2017****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 (2016-17)	Previous year (2015-16)	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>2a,3</sub> +F <sub>2b,3</sub> +F <sub>3,3</sub> +F <sub>4,3</sub> +F <sub>5,3</sub> +F <sub>6,3</sub> +F <sub>7,3</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>5,3</sub> +G <sub>6,3</sub> +G <sub>7,3</sub> )			
	9) Gross value added (GVA) (Item 8-Item 7 as above)			

Item	Current year (2016-17)	Previous year (2015-16)	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>8,3</sub> +F <sub>9,3</sub> +F <sub>10,3</sub> ) (+) (G <sub>8,3</sub> +G <sub>9,3</sub> +G <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> (+) (G <sub>1,3</sub> +G <sub>2,3</sub> +G <sub>3,3</sub> +G <sub>4,3</sub> +G <sub>5,3</sub> +G <sub>6,3</sub> +G <sub>7,3</sub> ) (-) (F <sub>1,3</sub> +F <sub>2a,3</sub> +F <sub>2b,3</sub> +F <sub>3,3</sub> +F <sub>4,3</sub> +F <sub>5,3</sub> +F <sub>6,3</sub> +F <sub>7,3</sub> ) (-) (H <sub>23,6</sub> ) (-) (I <sub>7,6</sub> )			

**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 2016-2017**  
**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, 2016								
2.	May, 2016								
3.	June, 2016								
4.	July, 2016								
5.	Aug, 2016								
6.	Sep, 2016								
7.	Oct, 2016								
8.	Nov, 2016								
9.	Dec, 2016								
10.	Jan, 2017								
11.	Feb, 2017								
12.	Mar, 2017								

## 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 2016-2017 the reference period is the financial year commencing from 1<sup>st</sup> April 2016 and ending on 31<sup>st</sup> March 2017 or the accounting year of the factory ending on any date between 01.04.2016 to 31.03.2017.

4. **Survey Period:** Survey of ASI 2016-17 was conducted in the year 2018.

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 lose 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 fuel 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.

**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, work-in-process, (represents the excess/deficit of value of semi-finished goods or work-in-process at the end of the accounting year over that of the beginning of the year plus net balance of semi-finished fixed assets on factory's capital account) and also the receipts for industrial and non-industrial services rendered to others, value of semi-finished goods of last year sold in the current year, sale value of goods sold in the same condition as purchased and value of electricity generated and sold. Value of gross output and total output has been used in the text inter-changeable 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.