



ASI FRAME

-Role of States/UTs

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28th Meeting of COCSSO

August 13, 2024

New Delhi



ASI Frame Introduction

Central Electricity Authority

Consists the Electricity undertakings not registered with Central Electricity Authority (CEA)

Bidi & Cigar Workers (Condition of Employment Act), 1966

Consists of those units maintained by registration authorities in respect of bidi and cigar establishments

Section 2m(i) and 2m(ii) of Factories Act, 1948

Based on the lists of registered units maintained by the Chief Inspector of Factories (CIF) in each State/UT

Comprehensive survey

ASI is a comprehensive survey to collect data on the registered manufacturing sector.

Complete and up-to-date frame

Availability of a complete and up-to-date frame of all the eligible units is an essential prerequisite for any large scale sample survey.

List frame

ASI frame is a list frame consisting more than 2,50,000 units.

ASI Frame – Extension of coverage

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 one of the 7 Acts in the Business Register of Establishments (BRE)

01

Companies Act,
2013

02

Factories Act, 1948

03

Shops and
Commercial
Establishment Act

04

Societies
Registration Act

05

Cooperative
Societies Act

06

Khadi and Village
Industries Board

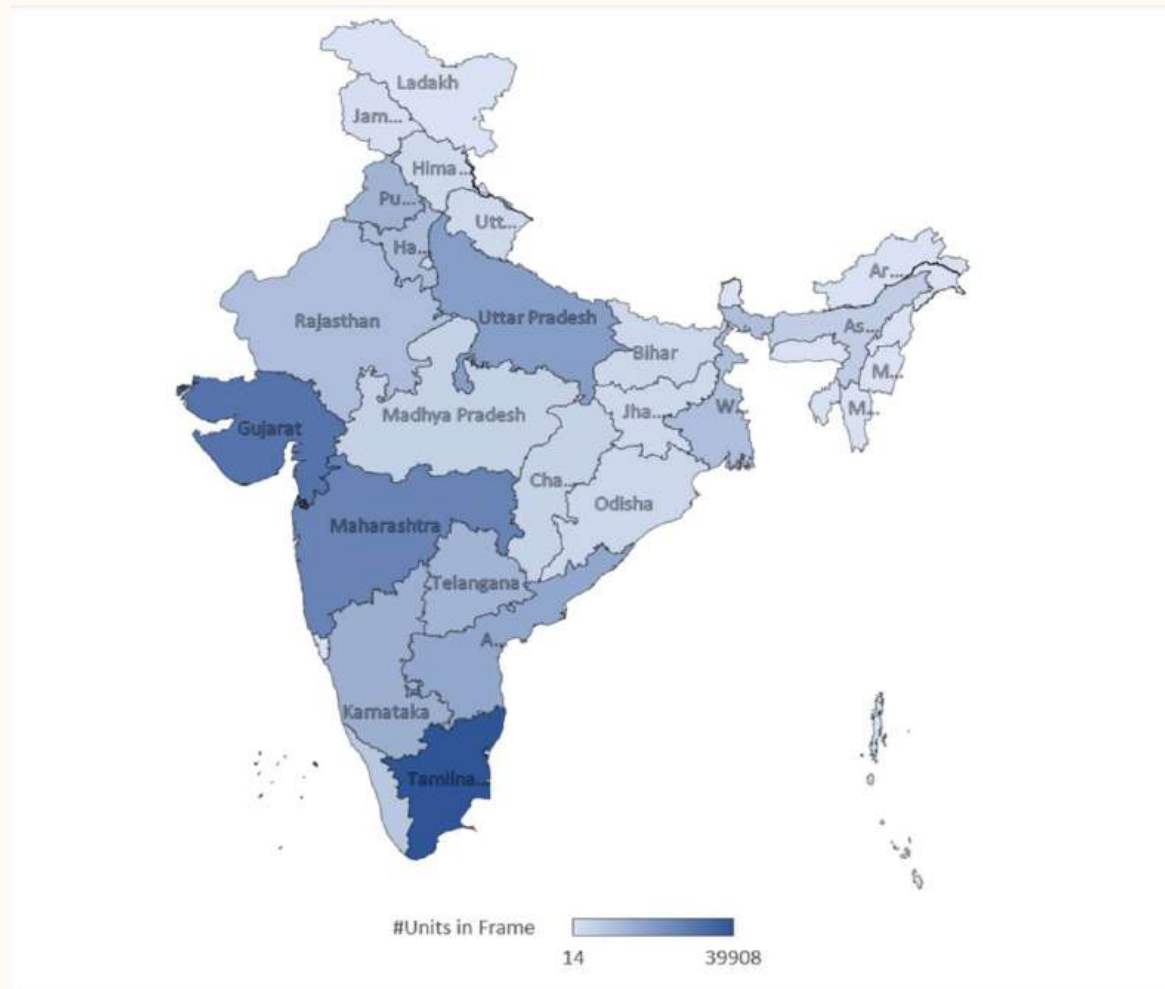
07

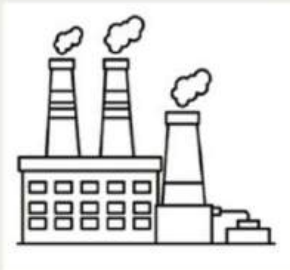
Directorate of
Industries (District
Industries Center)

ASI Frame- Some Important fields

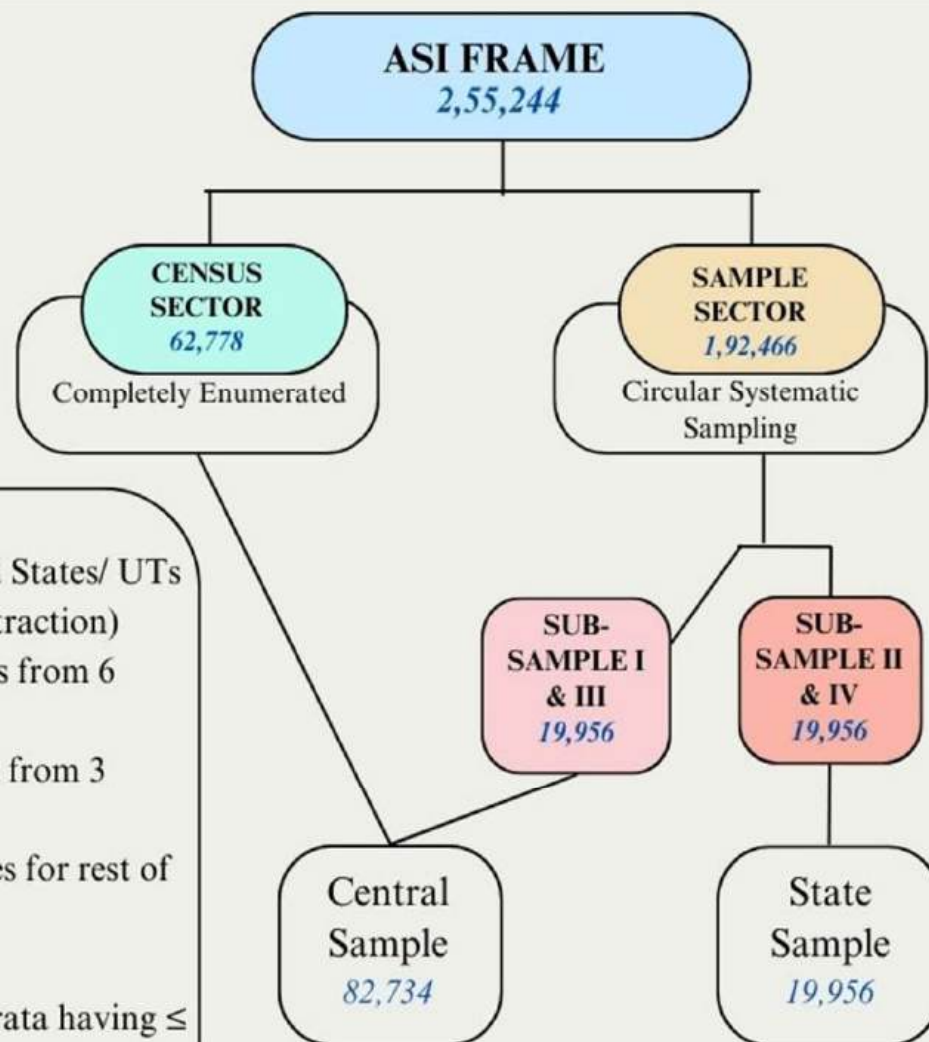
- ❖ The ASI frame contains information on the identification particulars including the name, complete address, registration number and contact details of owner of the unit etc.
- ❖ Some other basic information such as the industry code (as per NIC 4 digit) of the unit, the size of employment of the unit and the status of the units (open, closed, non-operating and deleted)
- ❖ Information in r/o Joint Return like indicating Mother unit and Joint Return (JR) code (4 digit) (applicable only for Central Sample)

State wise ASI frame at a glance





- Census criteria**
- 9 less industrially developed States/ UTs
 - Frame NIC = 0893(Salt Extraction)
 - Units having ≥ 75 employees from 6 States/UTs,
 - units having ≥ 50 employees from 3 States/UTs
 - units having ≥ 100 employees for rest of the States/UTs
 - Joint Returns
 - all units belonging to the strata having ≤ 4 units



States under Complete Enumeration



ASI – Frame Updation

- Revised/updated periodically by NSSO (FOD) in consultation with the CIF in the state as well as inputs received from State/UT DES.
- At the time of revision, the names of the de-registered factories are removed from the frame and those of the newly registered factories are added.
- Some of the fields like Status Code, Frame NIC (4 digit), Employee, Address (incl. geographic details) of the frame are also dynamically updated based on last year's survey results.
- Persons who are 'home workers' as per the Act, are not be included in ASI Frame.
- For revising Bidi & Cigar frame, establishments not fulfilling the criteria of the Factories Act (as amended) in respect of employment, are not to be included.

Frame Updation Period...cont.

- ❖ There are three target dates within which certain frame updation activities are to be performed by the FOD offices at different levels.
 - ✓ Target Date for Regional Offices (RO) : DD
 - ✓ Target Date for State RO : (DD+15)
 - ✓ Target Date for Zonal Offices (ZO) : (DD+30)

Frame Updation Activities...

❑ *Add/Update ASI Frame*

- Add supplementary units and updating the existing non-selected units (from the last year sample list)
- Update frame in respect of the information received from the state.

❑ *Frame Completion Certificate*

- All the ROs, State ROs and ZOs need to submit 'Frame Completion Certificate' on or before the respective target dates to indicate the completion of frame updation
- Frame freezes after submission of frame completion certificate

Dynamic Frame Updation

- ❑ The relevant information collected during the survey for the selected units in Central Sample are updated in the frame Dynamically after closing of survey
- ❑ Frame pertaining to the State Sample list is also required to be updated by the relevant information provided by the respective State/UT DES to the State Capital RO.



Some Important Takeaway



- ✓ Required timely submission of relevant information to the respective State Capital RO for frame updation.
- ✓ The window for frame updation will close on last date the specified target date.
- ✓ Inclusion of new units may not possible once the target date for frame updation expires at FOD

Role of State/UTs

- ❖ Constant liaison with CIF and all associated agencies for timely submission of relevant information pertaining to ASI Frame
- ❖ Continuous field verification, inspection and necessary updation of BRE
- ❖ Synchronization of survey period of State Sample with that of Central Sample
- ❖ Assimilation of appropriate conceptual issues applied in ASI
- ❖ Timely submission of appropriate and accurate information of State Sample to State RO of FOD

***Thank
you***





EC 2025-26: Action Plan and Expectation from States/UTs

Conference of Central and State Statistical Organisations

13.08.2024

New Delhi



2025-26



Layout of the Presentation



- About the Economic Census
- Expectation from States/UTs

Economic Census in India



- During pre-Independence era , Bowley and Robertson Committee commissioned a study in 1934 to explore the possibility of conducting economic census in India
- Post Independence ,CSO launched its plan scheme 'Economic Census and Surveys' in 1976 and conducted first Economic Census in 1977
- Subsequent censuses took place in 1980, 1990, 1998, 2005, 2013-14 and the last EC conducted during 2019-21
- EC 1980 and EC 1990 was conducted along with the house-listing operations of Population Census 1981 & 1991 respectively
- Except a departure in the previous EC 2019-21 , DES of States/UTs has conducted the field works and also prepared the reports for their respective State/UTs for every EC conducted so far

EC and its objectives & Outcomes(1/2)



➤ *Economic Census:*

- ✓ Complete count of all establishments and along with critical parameters
- ✓ **Exclusion** :units engaged in crop production, plantation, public administration, defence, and compulsory social security are excluded
- ✓ Coverage : Pan-India
- ✓ Granularity of data :- Up to village/ward level

➤ *Objective/Purpose:*

- ✓ To measure the spread, penetration and to understand the character of Non-Agri sector (especially the unorganized sector) of the Economy;
- ✓ To provide the no. of establishment and workers at all India, State, district, village/ward levels ;
- ✓ To provide the basis for constructing the nation-wide Statistical Business Register(SBR)

EC and its objectives & Outcomes(2/2)



➤ *Output:*

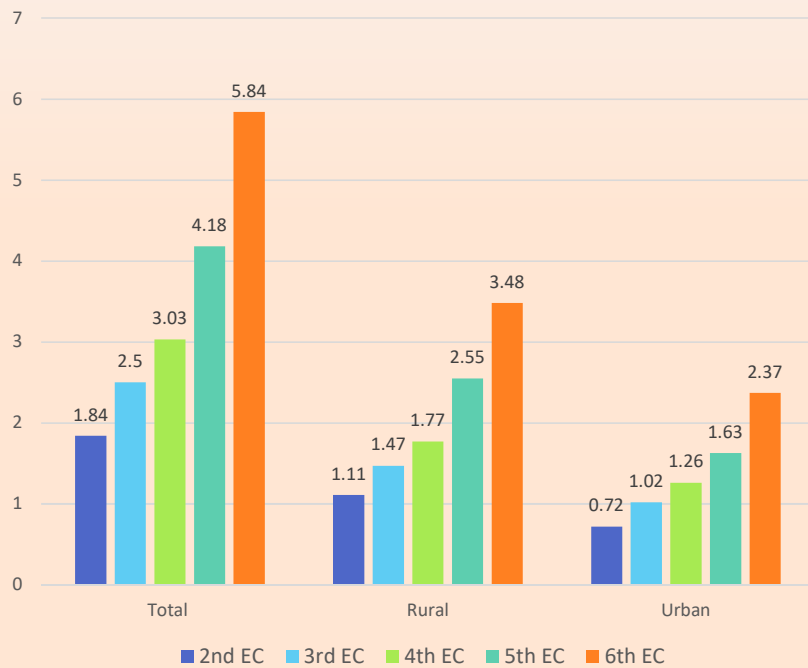
- ✓ Statistics on, nature of economic activities, type of workers, ownership etc. at all India, State, district, village/ward levels ;
- ✓ Sampling Frame for conducting follow-up survey;

➤ *Outcome:*

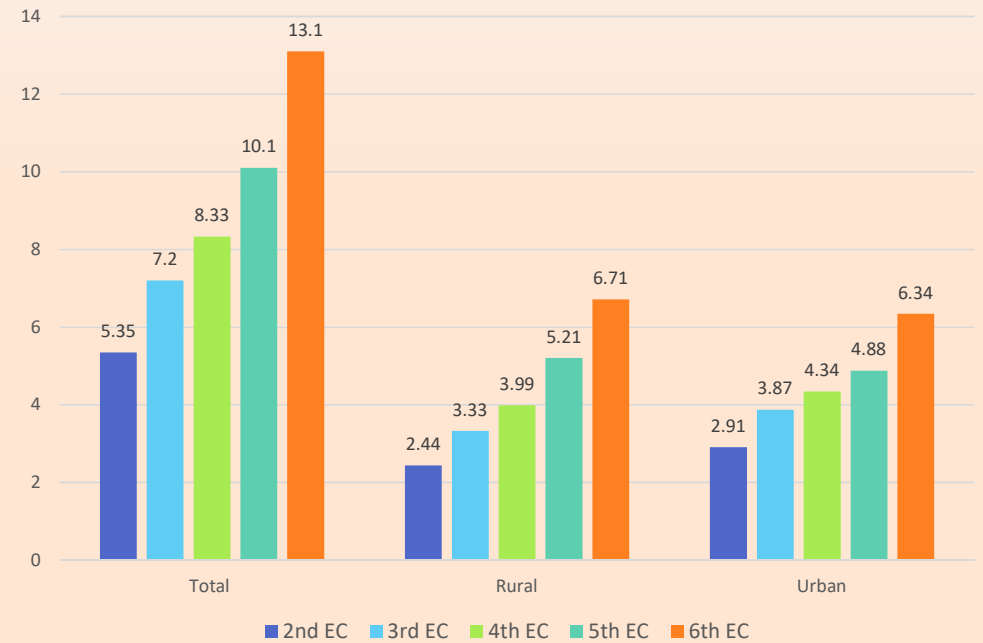
- ✓ Implementation of the granular level information for formulation of polies by Centre/State Govt.
- ✓ The database will also provide a basis for constructing the nation-wide Statistical Business Register(SBR)

Snap shot of data of past ECs

Number of Establishments (in crore)



Number of Worker (in crore)



Timelines for Economic Census 2025-26

- Launch of EC 2025-26 : April 2025
- Completion of field works – latest by December 2025
- Release of National as well as State level reports – by March 2026
- Completion of all related preparatory activities by January 2025
 - Human Resources(HR) finalization by December 2024
 - Training of HR by January 2025
 - Pilot Census by January 2025 – inter-alia testing of Mobile app by actual field work
 - SLCC and DLCC formation – by November 2024
 - Assessment of State Requirement of funds for executing the EC 2025-26 and Submission of estimated funds requirement by August 2024



Key Stakeholder & Governing Structure

Stakeholder

- ✓ M/o Statistics & Programme Implementation:
Nodal Ministry
- ✓ Other Central Ministries/Departments
- ✓ State/UT

Governing Structure

- Steering Committee : at Centre
- Expert Group : at Centre
- State Level Coordination Committee(SLCC)
- Regional Committee as per the need of State/UT
- District Level Coordination Committee(DLCC)

Methodology (1/3)



1. Collection of Data :

- ✓ The geographical area of country will be divided into primary geographical area as per LGD framework
 - Rural: State – District - Sub District – Development Blocks – Village
 - Urban - State – District - Sub District – Town – ward

- ✓ Each enumerator will be allotted primary geographical area (Village and Ward is the primary geographical area for rural and urban respectively)

- ✓ Data will be collected by trained enumerators through **hand-held devices** by visiting door to door of each structure and collecting information in a given geographical area as per the schedule of EC 2025-26

- ✓ Enumerators will follow the North-West corner protocol & serpentine method to capture each and every structures to avoid duplication and omission.

Methodology (2/3)



Data Supervision:

- ✓ Primary data collected by enumerators will be supervised by the trained supervisors on 100% basis through hand-held devices.
- ✓ Supervisors have to approve data of each and every enumerated primary unit

Data Quality:

- ✓ Data Quality would be assured through imparting comprehensive trainings, random checks, scrutiny, Post enumeration checks etc.

Data Validation :

- ✓ Inbuilt checks build up in mobile application to avoid errors at the time of collecting data.
- ✓ Approved data of supervisors will be validated with other sources of data through a pre-defined rule to check any anomalies in the data captured.
- ✓ Errors found in the data will send back to supervisors for verification & correction.

Methodology (3/3)



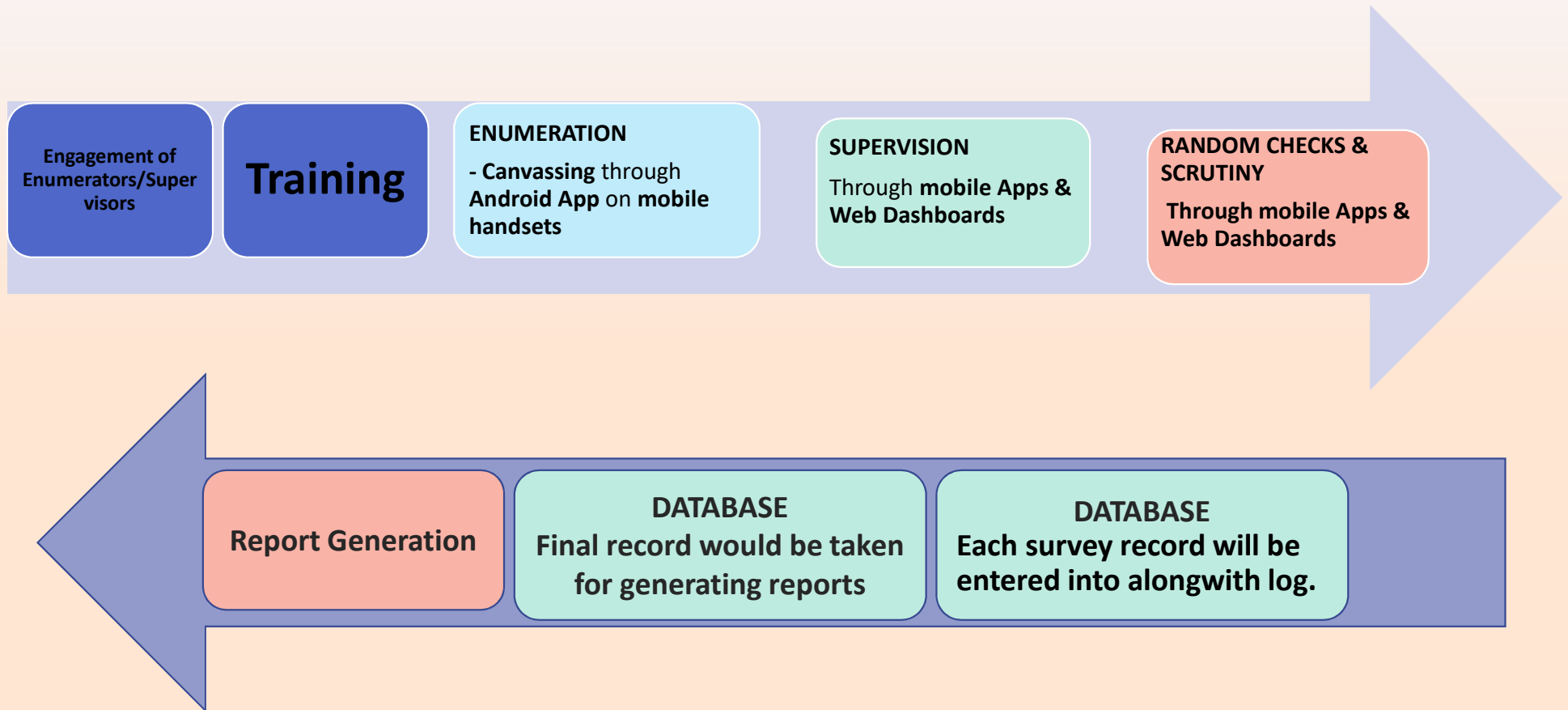
Data Tabulation :

- ✓ Only validated data will be processed as per the approved tabular plan at all India level, State level and district level.

Report Generation & release of results :

- ✓ All India report prepared by MoSPI will be released and subsequently State level report will be released by respective State/UTs

Process Flow Of EC 2025-26



Points for information

- Primary Geographical Area (Village and Ward) : Rural : village(as per LGD) , Urban: ward(as per UFS)

- Minimum Qualification of Enumerators & Supervisors
 - a) *Qualification of enumerators: Higher Secondary*
 - b) *Qualification of supervisors: Graduation*

- *Hand-held devices* for enumerator & supervisor (to use their own device- mobile):
honorarium based

Expectations from States/UTs(1/4)

Constitution of Committees : Timely Formation of SLCC /Regional Committee/DLCC covering all the concerned

Stakeholders

: Communication to MoSPI about the formation of such Committee

Coordination with Stakeholders:

- **Effective Communication:** Establish clear and effective communication channels with all stakeholders, including local bodies, government agencies, and private sector representatives, PRI , Local MLA/MP.
- **Regular Meetings:** Convene regular meetings with stakeholders to ensure alignment and address any emerging issues or challenges and take immediate steps to mitigate the same.

Engagement of Manpower:

- **Adequate Staffing:** States/UTs should ensure that sufficient and competent manpower is engaged for various stages of the census, including data collection, supervision, and scrutiny
- **Training & Orientation:** Staff should be sensitized about the objectives, methodology, and importance of the Economic Census for effective implementation of EC 2025-26

Expectations from States/UTs(2/4)

Capacity Building of Field Functionaries:

- **Training Programs:** Organize comprehensive training programs at the District, Sub-district, and Block levels for the field functionaries to be engaged for EC 2025-26
- **Active supervisory Support** and resources to the field staffs to address any challenges during data collection and supervision

Awareness & Publicity:

- **Statewide Campaigns:** extensive awareness and publicity campaigns at both the State and regional levels to inform the public and stakeholders about the Economic Census and its significance.
- **Use of Media:** Leverage various media channels, including social media, print, and electronic media, to maximize reach and impact

Conduct of Pilot Exercise:

- **Timely Execution:** Ensure the pilot exercise is conducted as per the schedule to identify any potential issues in the data collection process
- **Feedback & Improvement:** Actively gather feedback from the pilot exercise to refine and improve the methodologies and processes for the Economic census

Expectations from States/UTs(3/4)

Launch of Fieldwork:

- **Adherence to Timeline:** Ensure the fieldwork is launched on time as per the prescribed schedule.
- **Resource Allocation:** Allocate sufficient resources, including financial and logistical support, to facilitate smooth field operations.

Data Collection & Supervision:

- **Accuracy & Completeness:** Emphasize the importance of collecting accurate and complete data, avoiding any gaps or inconsistencies.
- **Strict Supervision:** Implement 100% strict supervision mechanisms to monitor the quality of data collection and ensure adherence to protocols.

Monitoring of Fieldwork:

- **Regular Monitoring:** Set up a robust monitoring system to track the progress of fieldwork in real-time.
- **Issue Resolution:** Address any issues or delays in the fieldwork promptly to avoid disruption in the overall timeline.

Expectations from States/UTs(4/4)

Random Checks and Scrutiny:

- **Quality Assurance:** Conduct random checks and scrutiny of the data collected to ensure its quality and reliability.
- **Corrective Measures:** Implement corrective measures if any discrepancies or errors are identified during scrutiny.

Finalization of State-Level Results:

- **Timely Submission:** Ensure that the State-level results are finalized and submitted to the M/o SPI within the stipulated timeline.
- **Validation & Verification:** Validate and verify the results thoroughly before submission to ensure their accuracy and reliability.

“The active and continuous engagement of the officials from the State DES is indispensable for effective and timely execution of this activity of National importance.”

Thank You

| EC - Timeline | Follow up Survey based on Frame |
|---------------|--|
| 1977 | Establishments engaged in manufacturing, trade, hotels & restaurants, transport, storage & warehousing and services. While the smaller establishments (employing less than six workers) and own account establishments were covered by National Sample Survey Organisation (NSSO) as a part of its 33rd and 34th rounds, the larger establishments were covered through separate surveys by the CSO. |
| 1980 | Three follow-up surveys were carried out, one in 1983-84 on hotels & restaurants, transport, storage & warehousing and services, second in 1984-85 on unorganised manufacturing and third in 1985- 86 on wholesale and retail trade. |
| 1990 | Four follow up surveys were carried out: Establishment Survey covering sectors of mining & quarrying, storage & warehousing in 1992-93; Establishment Survey covering sectors of hotels & restaurants and transport in 1993-94; NSS 51st round covering directory, non-directory and own account establishments in unregistered manufacturing sector in 1994-95; and Directory Trade Establishments Survey in 1996-97. NSS 53rd round covered the residual part of the unorganised trade sector in 1997. |
| 1998 | Special establishment survey in unorganized sector 1998-99. Survey on Unorganized Manufacturing sector: 2000-01 (NSS 56th round) Survey on Unorganized establishments in services sector (excluding trade and finance): 2001-02 (NSS 57th round) Survey on Unorganized Manufacturing sector: 2005-06 (NSS 62nd round) Survey on Unorganized establishments in services sector excluding trade: 2006-07 (NSS 63rd round) |
| 2005 | NSS 67th round during 2010-11 (Survey on Unincorporated Non-Agricultural Enterprises excluding Construction); NSS 73rd round during 2015-16 with the coverage similar to that of NSS 67th round. |



Enterprise Surveys in India

Overview and Key Insights

Soumya Chakraborty
National Sample Survey Office

Plan of Presentation

➤ Enterprise Surveys in India

➤ Annual Survey of Industries (ASI)

➤ Annual Survey of Unincorporated Sector Enterprises (ASUSE)

➤ State Assistance

✓ Introduction

✓ Coverage

✓ Sampling Design

✓ Recent Surveys

✓ Major Use/Users

✓ Some Key Findings from Recent Reports

Enterprise Survey Eco-system in NSSO

**Annual Survey of
Industries (ASI)**

**Annual Survey of
Unincorporated Sector
Enterprises (ASUSE)**

About ASI

- **Conducted Annually under the COS Act 2008 (As amended in 2017) and the Rules framed there under in 2011**
- **Provides statistical information to assess and evaluate the changes in the growth, composition and structure of organized manufacturing sector**
- **ASI is based on establishment approach and provides data on industry output, input, operating status, value added, fixed capital, fuels & energy consumption, inventory, employment, labour cost etc.**
- **ASI is a record based survey and the data for this survey are collected from Audited Balance sheet, P/L Account, Labour Registers etc.**



About ASUSE

- **Measures various economic and operational characteristics of unincorporated non-agricultural establishments in manufacturing, trade and other services sector**
- **ASUSE follows an establishment approach and captures data on type of ownership, registration status and several other operational characteristics, expenses, receipts, assets, loans, employment, etc. pertaining to the surveyed units.**
- **ASUSE data is used to assess and evaluate the changes in the growth, composition and structure of the unincorporated non-agricultural sector including the informal sector enterprises**



Coverage of ASI

All factories registered under Sections 2m(i) and 2m(ii) of the Factories Act, 1948

Electricity undertakings engaged in generation, transmission and distribution of electricity, not registered with the Central Electricity Authority (CEA)

Bidi and cigar manufacturing establishments registered under the Bidi & Cigar Workers (Conditions of Employment) Act, 1966

Geographically ASI covers the entire country

Ownership-wise ASI covers Proprietary, Partnership, LLP, Govt. and Non-Govt. Companies, Cooperative Societies

OUTSIDE COVERAGE

Defence establishments

Oil storage and distribution depots

Computer services

Restaurants, hotels, café

Departmental units such as railway workshops, Govt. Mints etc.

Gas storage units

COVERAGE of ASUSE



Geographical

Whole of India (except the villages in Andaman and Nicobar Islands which are difficult to access).



Sectors

All unincorporated non-agricultural establishments belonging to three sectors viz., Manufacturing, Trade and selected services sector other than trade.



Ownership

- Proprietorship,
- Partnership (Excluding LLP),
- SHG,
- Co-operatives,
- Societies/Trusts, Associations, Membership Organizations, Body Of Individuals

OUTSIDE COVERAGE

Agriculture

Public Administration and
Defence

Activities of households as
employers

Construction

Incorporated establishments

Others

- Activities of extraterritorial organizations and bodies
- Monetary intermediation, activities of holding companies and insurance sector
- Electricity units registered with the Central Electricity Authority (CEA)
- Railways/tramways/underground railways/air transport
- Manufacturing units covered in ASI

ASI Frame and Sample Design

- Based on the [lists of registered units maintained by the CIF](#) in each state and those maintained by [registration authorities in respect of bidi and cigar establishments and electricity undertakings](#)
- Revised/updated periodically by Field Offices
 - Newly added units
 - Deletion of units
 - Updating the surveyed units
- Information on location, NIC, Employee size etc.
- Sampling strategy: [Stratified sampling](#) with units selected [Circular Systematically \(CSS\)](#) within each stratum (*State X District X Sector X NIC 3-digit*)
- Relatively bigger units (in term of size of employee) are surveyed every year ([Census units](#))
- Frame size: **2,60,000** active units (98% manufacturing units)
- Sample size: **82000** units

ASUSE Frame and Sampling Design

A stratified multi-stage sampling design

Frames

Rural (except Kerala): Census 2011 list of villages
Rural (Kerala): list of Panchayat Wards (PW) as per Census 2011
Urban: Latest updated list of UFS blocks

Auxiliary Information (for stratification/sub-stratification): Sixth Economic Census (EC) frame

Sample Size

ASUSE 21-22: 4,16,269
Establishments
ASUSE 22-23: 4,58,938
Establishments

Stratification

For Rural : Each NSS Region

For Urban: Under each NSS Region, Strata are decided according to population of towns

Sub-Stratification

For Rural Regions: All the villages with zero worker will comprise of a sub-stratum. Non-zero sub-stratum are formed based on variation in number of workers in villages.

For Urban Region: 2 Sub-Strata. One consisting of densely populated area (bazaar area) and another rest of the UFS blocks

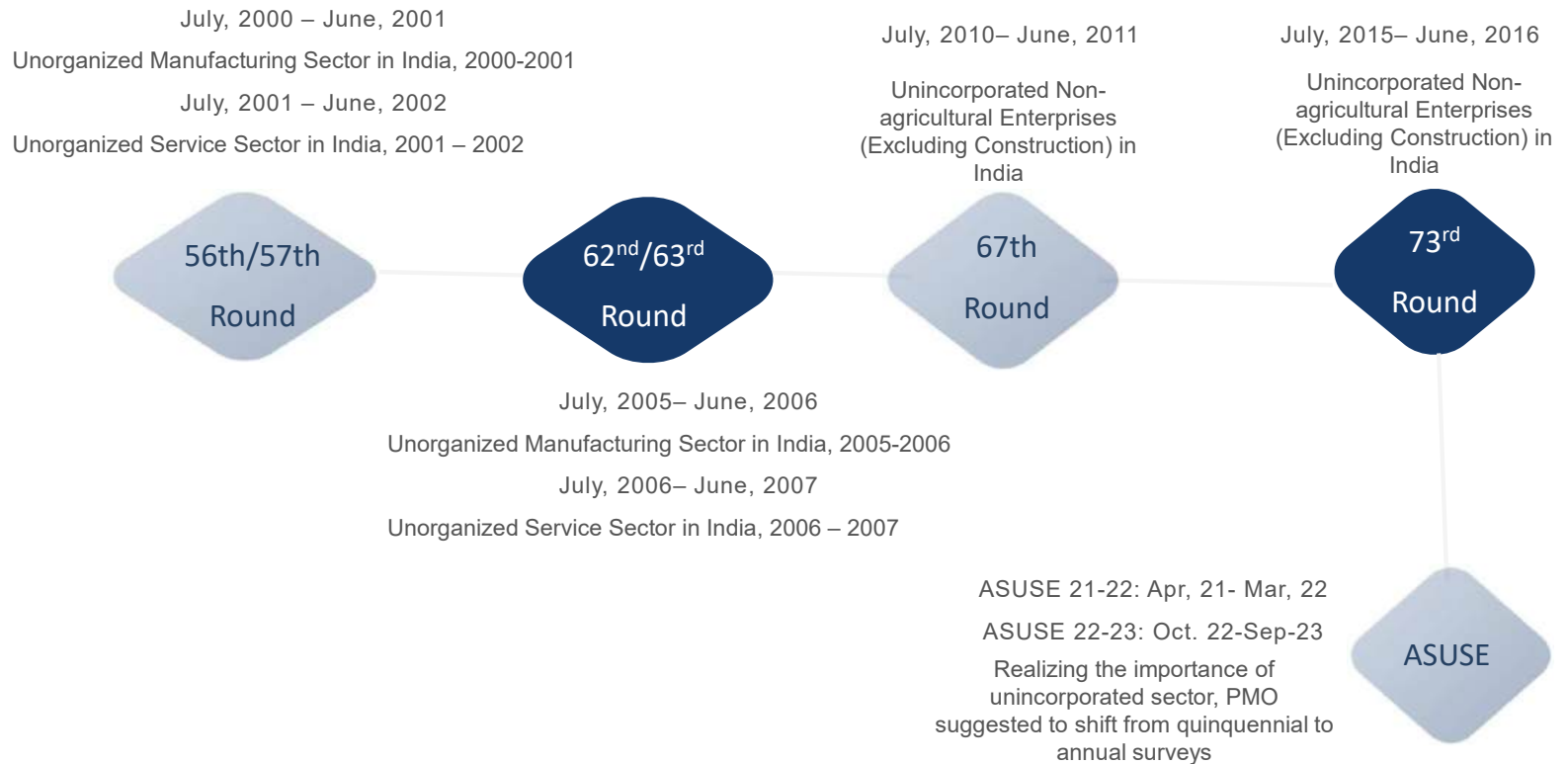
Sample Selection

Both FSU are SSUs are selected by **SRSWOR**

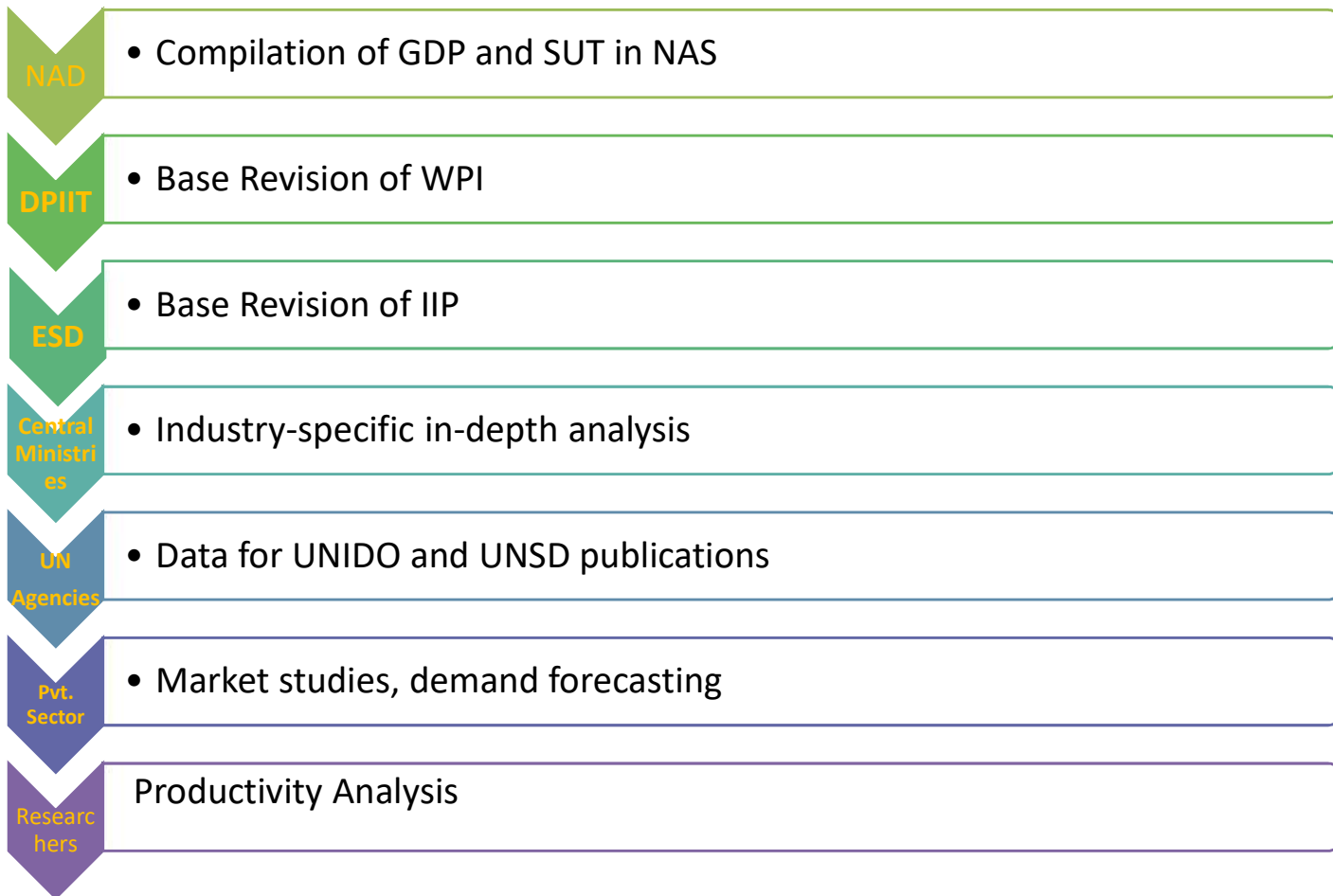
Second Stage Stratification

18 Second Stage Strata will be formed based on type of activities (NICs) the establishments are engaged in

Recent Surveys



Major Use/Users of ASI data



**Major Use/Users of ASUSE
data**

National Accounts Statistics

M/o MSME

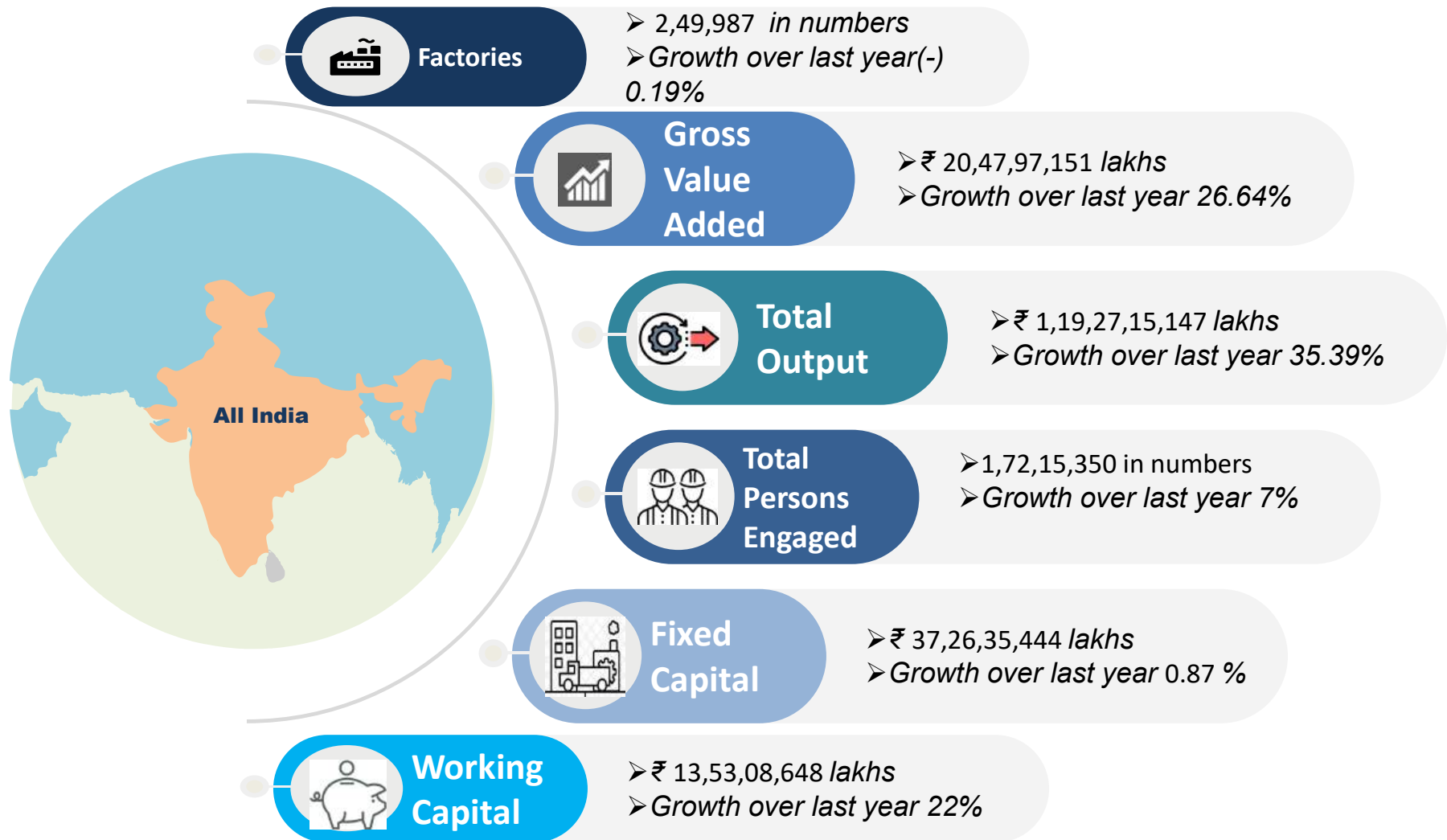
M/o Labour and Employment

M/o Textiles

Private Sector

Researchers and Academia

Key Findings From ASI 2021-22

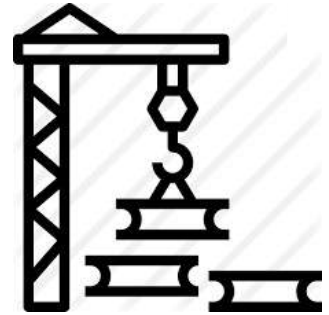


Top 3 Industries in terms of contribution in Total Output and GVA



Basic Metals

- 11,861 factories in numbers
- 12,71,623 persons engaged
- 15.9% contribution in All India Output
- 16.7 % contribution in All India GVA



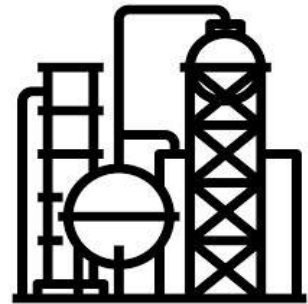
Food Products

- 39,660 factories in numbers
- 19,02,472 persons engaged
- 12.9 % contribution in All India Output
- 6.9 % contribution in All India GVA



Coke and Refined Petroleum Products

- 1,819 factories in numbers
- 1,59,001 persons engaged
- 11.4 % contribution in All India Output
- 6.3 % contribution in All India GVA



Key Findings (ASUSE)

Establishments

CAGR: 5.88%

| | |
|----------------------|--------------------|
| ASUSE 2021-22 | 5.97 Crores |
| ASUSE 2022-23 | 6.50 Crores |

Workers

CAGR: 7.84%

| | |
|----------------------|---------------------|
| ASUSE 2021-22 | 9.79 Crores |
| ASUSE 2022-23 | 10.96 Crores |

GVA

CAGR: 9.83%

| | |
|----------------------|-------------------------|
| ASUSE 2021-22 | 13,40,046 Crores |
| ASUSE 2022-23 | 15,42,409 Crores |

Percentage Share of Establishment for each Sector

Manufacturing

| | |
|----------------------|--------------|
| ASUSE 2021-22 | 28.9% |
| ASUSE 2022-23 | 27.4% |

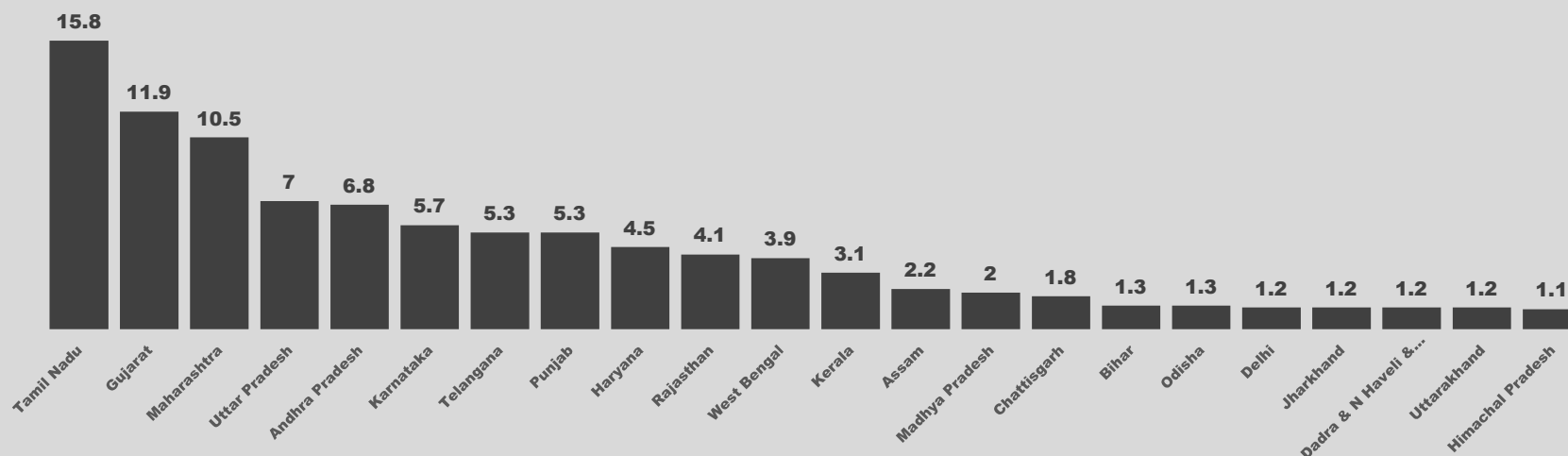
Trade

| | |
|----------------------|--------------|
| ASUSE 2021-22 | 37.7% |
| ASUSE 2022-23 | 34.7% |

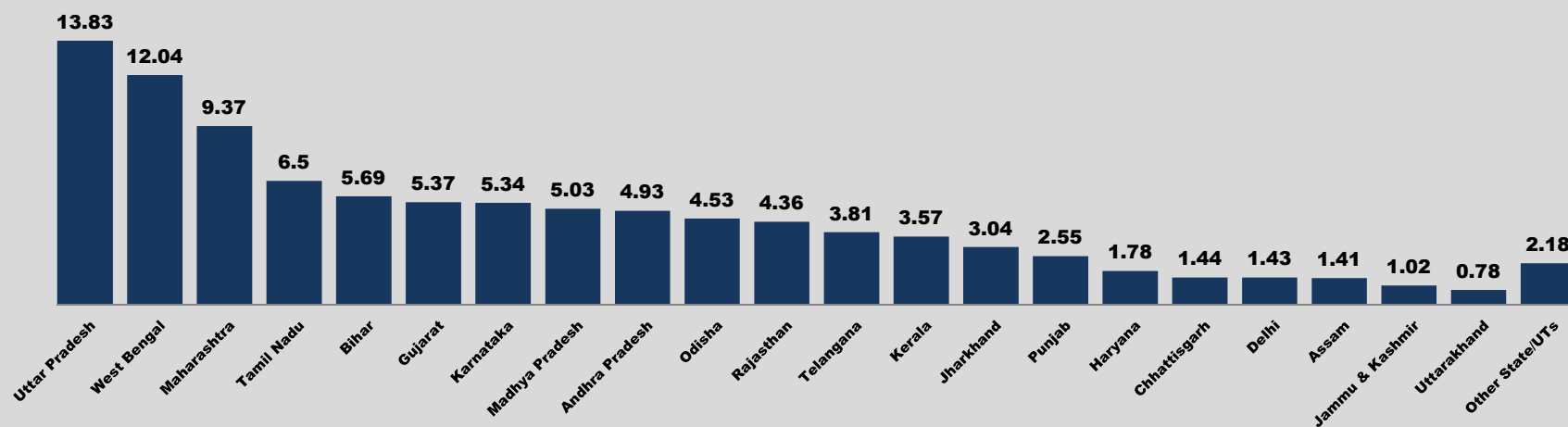
Other Services

| | |
|----------------------|--------------|
| ASUSE 2021-22 | 33.4% |
| ASUSE 2022-23 | 37.9% |

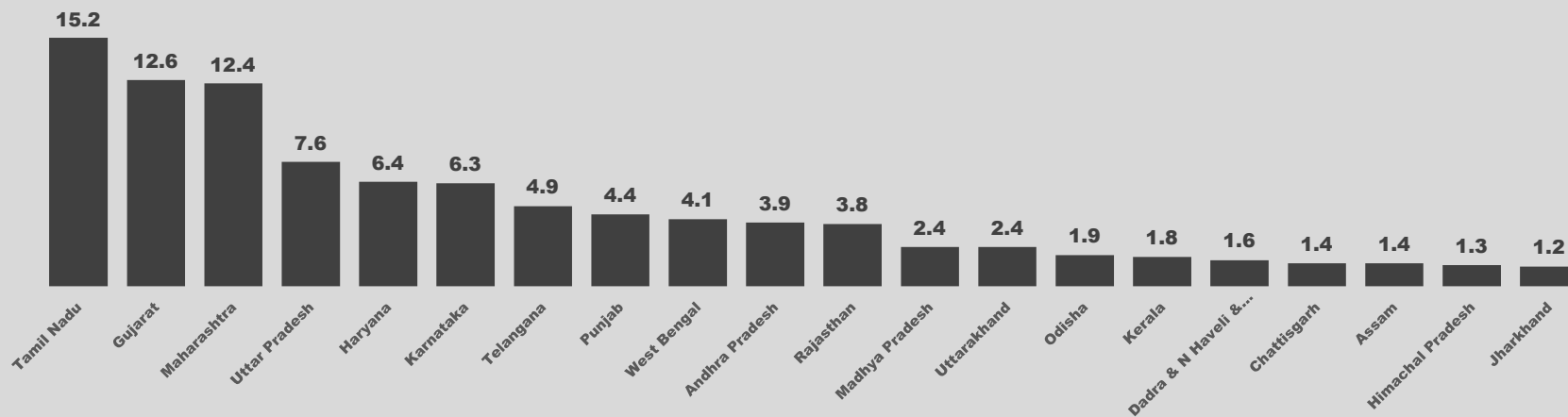
% SHARE OF MAJOR STATES in FACTORIES: ASI 2021-22



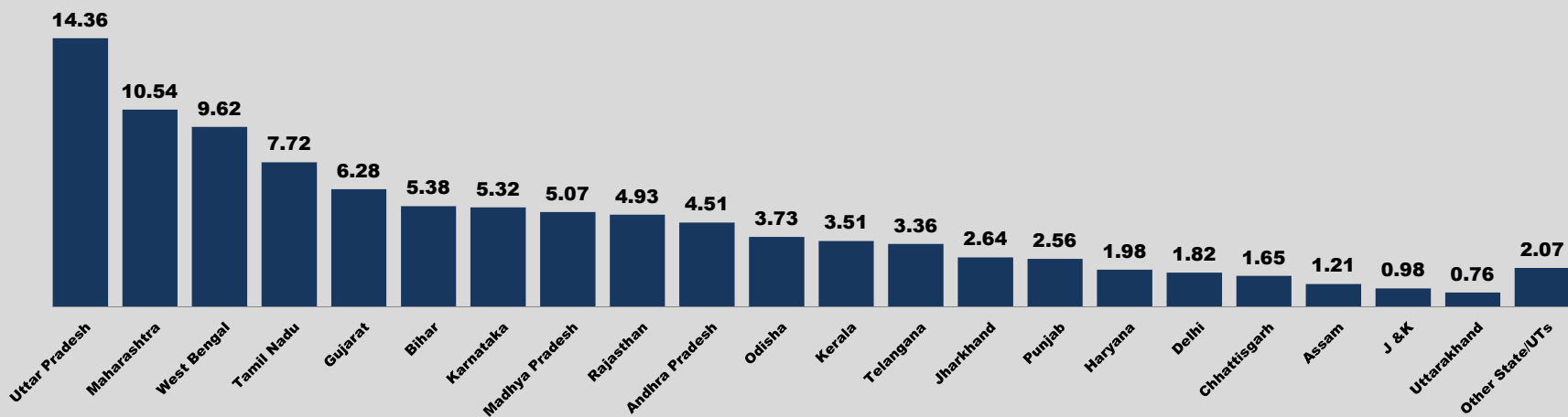
% SHARE OF MAJOR STATES in ESTABLISHMENTS: ASUSE 2022-23



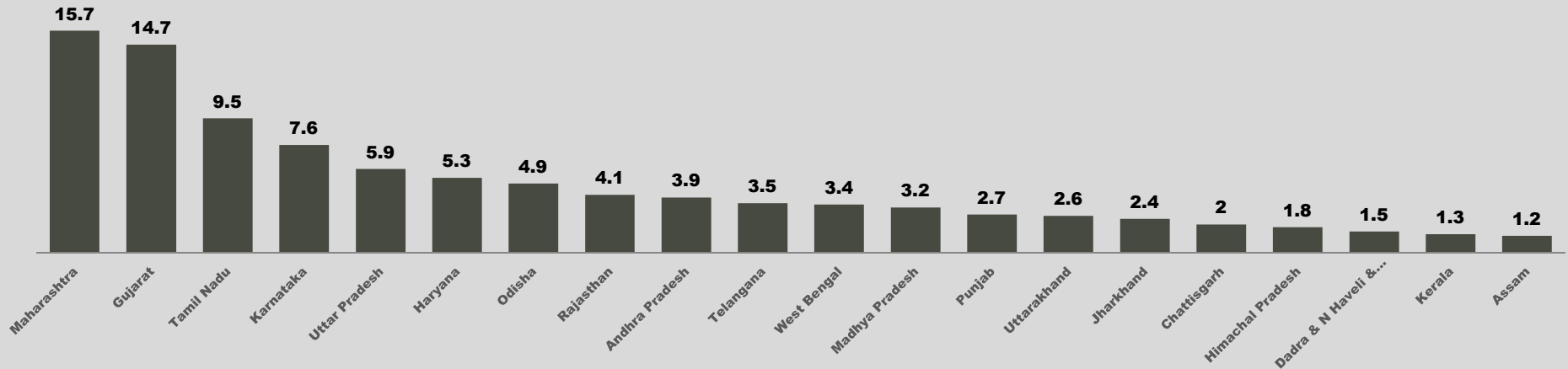
% SHARE OF MAJOR STATES in TOTAL PERSONS ENGAGED: ASI 2021-22



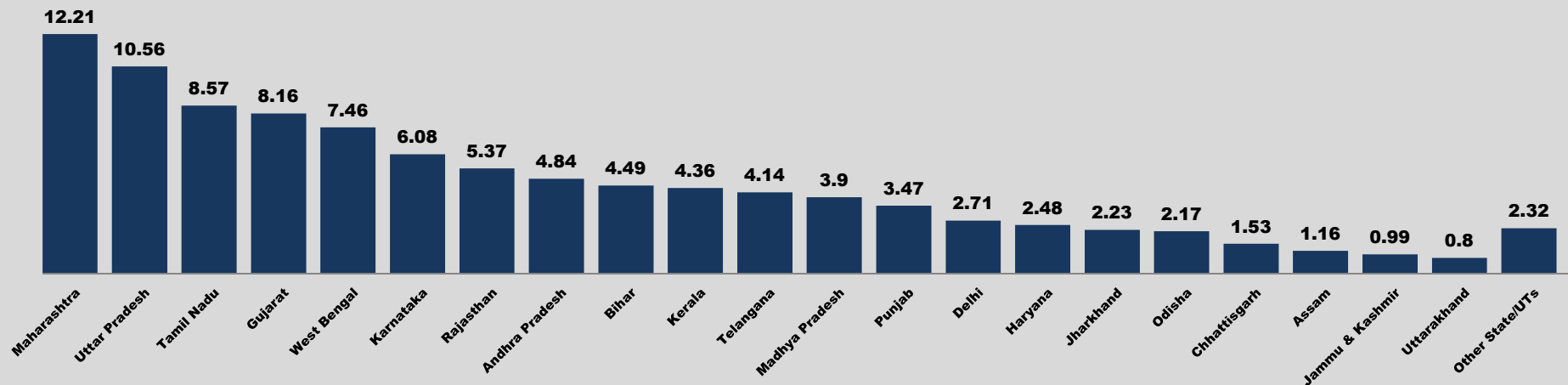
% SHARE OF MAJOR STATES in WORKERS: ASUSE 2022-23



% SHARE OF MAJOR STATES in GVA: ASI 2021-22



% SHARE OF MAJOR STATES in GVA: ASUSE 2022-23



Key Findings From ASI: Top State

| Parameters | ASI 2021-22 | ASI 2022-23 |
|-------------------------------|--------------------|-------------------|
| FACTORIES IN OPERATION | Tamil Nadu | Tamil Nadu |
| FIXED CAPITAL | Gujarat | Gujarat |
| WORKERS | Tamil Nadu | Tamil Nadu |
| OUTPUT | Gujarat | Gujarat |
| GVA | Maharashtra | Gujarat |

Percentage Share of highest contributing States in Broad Activity Categories (Establishments): ASUSE 2022-23

Manufacturing

| | |
|-----------------|----|
| West Bengal | 16 |
| Uttar Pradesh | 12 |
| Maharashtra | 9 |
| Other State/UTs | 63 |

Trade

| | |
|-----------------|----|
| Uttar Pradesh | 17 |
| Maharashtra | 10 |
| West Bengal | 9 |
| Other State/UTs | 64 |

Other Services

| | |
|-----------------|----|
| Uttar Pradesh | 12 |
| West Bengal | 12 |
| Maharashtra | 9 |
| Other State/UTs | 66 |

Percentage Share of highest contributing States in Broad Activity Categories (Workers): ASUSE 2022-23

Manufacturing

| | |
|-----------------|----|
| West Bengal | 14 |
| Uttar Pradesh | 13 |
| Maharashtra | 10 |
| Other State/UTs | 64 |

Trade

| | |
|-----------------|----|
| Uttar Pradesh | 17 |
| Maharashtra | 11 |
| West Bengal | 7 |
| Other State/UTs | 65 |

Other Services

| | |
|-----------------|----|
| Uttar Pradesh | 13 |
| Maharashtra | 11 |
| West Bengal | 9 |
| Other State/UTs | 67 |

State Assistance (provided in ASI and also till NSS 73rd round)

- **Survey instruments...**
 - Survey questionnaire
 - Instruction manual
 - Sampling design and state sample list
 - estimation procedure and tabulation plan
- **Data Processing Instruments...**
 - Data entry and Validation software
 - Validation Rules
 - Tabulation software
- **Technical guidance - training, conceptual clarifications etc.**

Issues in State Assistance in ASUSE

- Earlier in round based surveys, the sampling design was developed keeping the districts as basic stratum enabling States to generate district level estimates
- In ASUSE, NSS region is considered as the basic stratum.
- The present sampling design does not support generating design-based district level estimates
- To generate the district level estimates, design of ASUSE needs to be suitably modified
- The whole survey landscape in NSS has changed from PAPI to CAPI



**Thank
You**