

Government of India
Enterprise Survey Division
National Sample Survey Office
164, Gopal Lal Thakur Road, Kolkata-700108

Final Multiplier-posted unit-level data
For Annual Survey of Unincorporated Sector Enterprises (ASUSE) of 2023-2024

A) Data for ESU Schedule of ASUSE 2023-24:

There are 16 data files belonging to 16 different levels as per layout of NSS_ASUSE_23_24_Layout_mult_post.xls.

Files Names	Record Length	No. of Records
asuse_2324_esu_l01.txt	57+1	537199
asuse_2324_esu_l02.txt	103+1	523775
asuse_2324_esu_l03.txt	64+1	523775
asuse_2324_esu_l04.txt	59+1	2175580
asuse_2324_esu_l05.txt	56+1	3250787
asuse_2324_esu_l06.txt	59+1	2252820
asuse_2324_esu_l07.txt	56+1	124580
asuse_2324_esu_l08.txt	56+1	1803432
asuse_2324_esu_l09.txt	79+1	1245483
asuse_2324_esu_l10.txt	56+1	463618
asuse_2324_esu_l11.txt	93+1	3032903
asuse_2324_esu_l12.txt	69+1	114132
asuse_2324_esu_l13.txt	57+1	36104
asuse_2324_esu_l14.txt	57+1	1162601
asuse_2324_esu_l15.txt	73+1	159910
asuse_2324_esu_l16.txt	57+1	1562796

All the level wise data files are in windows/dos format and record length including new-line character (excluding carriage return character).

B) Note for users:

1. These level wise data files are text data with different record-length (including new-line character). The last field of each level comprises of 10 bytes which are the weight or Multiplier calculated as per the estimation procedure. Last byte is for Newline character.
2. The layout of data is given in the Excel-file '*NSS_ASUSE_23_24_Layout_mult_post.xlsx*'
3. The State code can be derived from the field '**NSS-Region**' (first 2 digits) and the mapping is available in the 'State Code' sheet of the Excel-file '*NSS_ASUSE_23_24_Layout_mult_post.xlsx*'
4. Detailed Table nos. 02-44 of *Appendix-A* have been generated for all NICs under coverage of ASUSE, except for **NIC 68108**. Table no. 45 is generated only for NIC 68108.
5. **Instruction for .txt to .csv conversion of Unit-Level Data:**
 - a. Download the NSS_ASUSE_23_24_Layout_mult_post.xlsx file and the ASUSE Unit-Level data for Levels 01-16.

- b. Place both files in the same folder where the **txt2csv_asuse_2324.exe** file is located.
 - c. Double-click the .exe file to convert the .txt files into .csv format.
 - d. It is important to note that while using the .csv files to generate estimates, ensure that all variables are imported as string/character data types. This retains zero-padded entries (e.g. NSS Region, District Codes, etc.) in their original format. Failure to do so will result in leading zeros being omitted. For example, the District Code '01' will incorrectly appear as 1.
 - e. In addition, data users are advised to use caution while opening the .csv level data file since MS Excel has a limit of **1,048,576 rows** and the total number of records in data files may exceed that limit for some level(s). Therefore, data users are advised to open these .csv files in “NOTEPAD” or any other appropriate software other than MS Excel so as to ensure full download of the file. In case the file has been opened in Excel by mistake, the same should not be saved while closing. Saving big files in Excel may overwrite the original file with the truncated one and the size of the original file will be reduced in this process.
6. In the value fields (in Rs.) the numeric figure is given in whole number including negative values wherever applicable.
 7. Establishment Serial Number, if exceeds ‘99’, is represented in alphabetical codes in the unit-level data.
 8. For generating any estimate, one has to extract relevant portion of the data, and aggregate after applying the weights or multiplier.
 9. Final Weight = $MLT/100$.
 10. Common Primary Key for identification of an establishment level record:

<i>Field Name</i>	<i>Byte position</i>		<i>Total length (in bytes)</i>
	Start	End	
FSU Serial Number	1	5	5
Segment Number	25	25	1
Second Stage Stratum Number	26	27	2
Sample Establishment Number	28	29	2

11. Formulae for calculation of **GVA for the reference period** in ASUSE 2023-24:

Sl. No.	Type of Est.	Type of reference period	Output	Input	GVA
1.	Market Est. (item 209≠1 and 202b≠70100)	Monthly (item 265 ≠4)	Suppose, $A = (\text{item } 569 - \text{item } 556) + (\text{item } 556 - \text{item } 306) + (\text{item } 589 - \text{item } 319) + \text{item } 599 + \text{item } 609 + \text{item } 619 + \text{item } 639 + \text{item } 649 + \text{item } 659 + (\text{item } 669 - \text{item } 664) + \text{item } 679 + \text{item } 699 + \text{item } 719 + \text{item } 729 + \text{item } 73Z + \text{item } 749 - [(\text{item } 761 + \text{item } 762 - \text{item } 763 - \text{item } 764)]$ $= (\text{item } 569 - \text{item } 306) + (\text{item } 589 - \text{item } 319) + \text{item } 599 + \text{item } 609 + \text{item } 619 + \text{item } 639 + \text{item } 649 + \text{item } 659 + (\text{item } 669 - \text{item } 664) + \text{item } 679 + \text{item } 699 + \text{item } 719 + \text{item } 729 + \text{item } 73Z + \text{item } 749 - [(\text{item } 761 + \text{item } 762 - \text{item } 763 - \text{item } 764)]$ Output for ref. period $= A + [(\text{item } 664 - \text{item } 431)/12]$	Input for ref. period $= (\text{item } 309 - \text{item } 306) + \text{item } 339 + \text{item } 349 + \text{item } 359 + \text{item } 389 + \text{item } 399 + (\text{item } 419 - \text{item } 407) + (\text{item } 439 - \text{item } 431) + \text{item } 459 + \text{item } 479 + \text{item } 499 + \text{item } 509 + \text{item } 50Z + (\text{item } 549 - \text{item } 543)$	Gross Value Added (for ref. period) $= \text{Output for ref. period} - \text{Input for ref. period}$
2.	Market Est. (item 209≠1 and 202b≠70100)	Yearly (item 265 =4)	Output for ref. period $= (\text{item } 569 - \text{item } 556) + (\text{item } 556 - \text{item } 306) + (\text{item } 589 - \text{item } 319) + \text{item } 599 + \text{item } 609 + \text{item } 619 + \text{item } 639 + \text{item } 649 + \text{item } 659 + (\text{item } 669 - \text{item } 664) + (\text{item } 664 - \text{item } 431) + \text{item } 679 + \text{item } 699 + \text{item } 719 + \text{item } 729 + \text{item } 73Z + \text{item } 749 - [(\text{item } 761 + \text{item } 762 - \text{item } 763 - \text{item } 764)]$ $= (\text{item } 569 - \text{item } 306) + (\text{item } 589 - \text{item } 319) + \text{item } 599 + \text{item } 609 + \text{item } 619 + \text{item } 639 + \text{item } 649 + \text{item } 659 + (\text{item } 669 - \text{item } 431) + \text{item } 679 + \text{item } 699 + \text{item } 719 + \text{item } 729 + \text{item } 73Z + \text{item } 749 - [(\text{item } 761 + \text{item } 762 - \text{item } 763 - \text{item } 764)]$	Input for ref. period $= (\text{item } 309 - \text{item } 306) + \text{item } 339 + \text{item } 349 + \text{item } 359 + \text{item } 389 + \text{item } 399 + (\text{item } 419 - \text{item } 407) + (\text{item } 439 - \text{item } 431) + \text{item } 459 + \text{item } 479 + \text{item } 499 + \text{item } 509 + \text{item } 50Z + (\text{item } 549 - \text{item } 543)$	Gross Value Added (for ref. period) $= \text{Output for ref. period} - \text{Input for ref. period}$
3.	Non-market Est. (item 209=1 or 202b=70100)	Monthly (item 265 ≠4)	Output for ref. period $= \text{Input} + \text{item } 939$	Input for ref. period = $(\text{item } 309 - \text{item } 306) + \text{item } 339 + \text{item } 349 + \text{item } 359 + \text{item } 389 + \text{item } 399 + (\text{item } 419 - \text{item } 407) + (\text{item } 439 - \text{item } 431) + \text{item } 459 + \text{item } 479 + \text{item } 499 + \text{item } 509 + \text{item } 50Z + (\text{item } 549 - \text{item } 543)$	Gross Value Added (for ref. period) $= \text{Output for ref. period} - \text{Input for ref. period}$
4.	Non-market Est. (item 209=1 or 202b=70100)	Yearly (item 265 =4)	Output for ref. period $= \text{Input} + \text{item } 939$	Input for ref. period $(\text{item } 309 - \text{item } 306) + \text{item } 339 + \text{item } 349 + \text{item } 359 + \text{item } 389 + \text{item } 399 + (\text{item } 419 - \text{item } 407) + (\text{item } 439 - \text{item } 431) + \text{item } 459 + \text{item } 479 + \text{item } 499 + \text{item } 509 + \text{item } 50Z + (\text{item } 549 - \text{item } 543)$	Gross Value Added (for ref. period) $= \text{Output for ref. period} - \text{Input for ref. period}$

C. Formulae for Calculation of Annual GVA in ASUSE 2023-24 (For market establishments):

Annual GVA = item 769 of block 7.1 \times **m**, where,

m = 12, for perennial establishments i.e. when item 216, block 2 = 1 and item 265 \neq 4
 = item 217, for seasonal and casual establishments i.e., when item 216, block 2 \neq 1 and item 265 \neq 4
 = 1, when item 265 = 4.

D. Criterion for determining MSME:

1. M/o MSME has adopted a new definition to identify entities as MSME based on a composite criterion of turnover and investment in plant and machinery or equipment. As per this new definition, an establishment shall be classified as a micro, small or medium enterprise on the basis of the following criteria, namely,

- (i) a micro enterprise, where the investment in plant and machinery or equipment does not exceed one crore rupees and turnover does not exceed five crore rupees;
- (ii) a small enterprise, where the investment in plant and machinery or equipment does not exceed ten crore rupees and turnover does not exceed fifty crore rupees;
- (iii) a medium enterprise, where the investment in plant and machinery or equipment does not exceed fifty crore rupees and turnover does not exceed two hundred and fifty crore rupees;

This criterion is essentially based on an enterprise approach.

2. To estimate the number of MSMEs from data of ASUSE 2023-24, the following approach is to be followed:

2.1 Investment in plant and machinery or equipment has been approximated by fixed assets owned by the establishment as on the last date of reference period (col. 3 of Block 10). The type of assets considered for estimating the investment in plant and machinery or equipment are:

- i. Plant and machinery (item 1003, Block 10)
- ii. Transport equipment (item 1004, Block 10)
- iii. Software and database (item 1006, Block 10)
- iv. Information, computer and telecommunications equipment (item 1007, Block 10)
- v. Tools and other fixed assets (item 1008, Block 10)

Total investment in plant and machinery or equipment (of an establishment) = col. 3 of item (1003 +1004 +1006 +1007 +1008)

2.2 Turnover may be estimated using the total annual receipt of the establishment available in block 5 and block 6 of ESU schedule. The formula for calculating the same is given below:

Total turnover (of an establishment) = item (569 + (589 – 584) + 599 + 609 + 619 + (639 – 635) + 649 + 659 + (669-664) + 679 + 699 + 719 + 729 + (73Z -73G) + (731+732+733+735+736+741)) * m) + item 664, where,

m = 12, for perennial establishments i.e. when item 216, block 2 = 1 and item 265 \neq 4
 = item 217, for seasonal and casual establishments i.e., when item 216, block 2 \neq 1 and item 265 \neq 4
 = 1, when item 265 = 4

E. List of Documents:

Srl. No.	File Name	Description
i.	Objective of ASUSE 2023-24	Objective of the survey and note for the users of unit-level data of ASUSE 2023-24
ii.	README_ASUSE_2324	General Information
iii.	NSS_ASUSE_23_24_Layout_mult_post.xlsx	Text Data Layout
iv.	ASUSE_2324_Vol_I	Instructions to Field Staff - Design, Concepts, Definitions and Procedure
v.	ASUSE_2324_Vol_II	Facsimile of Schedules LSU & ESU Schedules
vi.	ASUSE_2324_Estimation_Procedure	Note on Estimation Procedure
vii.	txt2csv_asuse_2324.exe	.txt to .csv conversion program of Unit-Level Data
