

Technical Documents for ASI estimation for the year 2022-'23

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1. CONCEPTS AND DEFINITIONS

Important concepts and definitions used in ASI are explained below.

2. 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.

3. 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.

4. Reference Period: It corresponds to the financial year. For example, for ASI 2022-2023 the reference period is the financial year commencing from 1st April 2022 and ending on 31st March 2023 or the accounting year of the factory ending on any date between 01.04.2022 to 31.03.2023.

5. Survey Period: Survey period is a period during which work of any Annual Survey of Industries is undertaken. The survey period for ASI 2022-2023 is from November 2023 to June 2024.

6. 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.

7. 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.*

8. 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.

9. 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.

10. 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.

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

12. 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.

13. 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.

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

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

16. 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.

17. 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.

18. 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.

19. 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.

20. 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**.

21. 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.

22. 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.

23. 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.

24. 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.

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

26. 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.

27. 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.

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

29. 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.

30. 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.

31. 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.

32. 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.

33. *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.

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

35. *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.

36. *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.

37. *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.

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

39. *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.

40. *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.

41. *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.

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

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

2. List of codes used in ASI schedule

I. Scheme Code (Block A Item 3):

Census – 1, Sample – 2

II. Sector Code (Block A Item 9):

Rural –1, Urban –2

III. Status of Unit (Code) (Block A Item 12)

Open	1
Existing with fixed assets and maintaining staff but not having production	2
Existing with fixed assets but not maintaining staff and not having production	3
Deleted(including cases of status code 3 for 3 years or more or non-existence or de-registration or out of coverage or any other suitable reason for which deletion from frame is proposed by NSO(FOD))	4
Existing but non-response due to closure and owner / occupier is not traceable.....	5
Non-response due to production not yet started or accounting year not closed during the year	7
Non-response due to other reasons <i>[incl. relevant records are with Court / Income tax or recalcitrant/refuse to submit the return, or factory under prosecution in respect of earlier ASI]</i>	8

IV. State Code (Block A Item 7)

Name	Code	Name	Code
A and N Islands	35	Madhya Pradesh	23
Andhra Pradesh	28	Maharashtra	27
Arunachal Pradesh	12	Manipur	14
Assam	18	Meghalaya	17
Bihar	10	Nagaland	13
Chandigarh(U.T.)	4	Mizoram	15
Chhattisgarh	22	Odisha	21
Dadra & N Haveli & Daman & Diu	25	Puducherry	34
Delhi	7	Punjab	3
Goa	30	Rajasthan	8
Gujarat	24	Sikkim	11
Haryana	6	Tamil Nadu	33
Himachal Pradesh	2	Telangana	36
Jammu and Kashmir	1	Tripura	16
Jharkhand	20	Uttar Pradesh	9
Karnataka	29	Uttarakhand	5
Kerala	32	West Bengal	19
Ladakh	37		

V. Type of Organisation (Code) (Block B Item 2)

- a) Individual Proprietorship - 1
- b) Partnership - 2
- c) Limited Liability Partnership - 3
- d) Government Company - Public - 4
- e) Government Company - Private - 5
- f) Non Government Company - Public - 6
- g) Non Government Company - Private - 7
- h) Co-operative Society - 8
- k) Others (including Joint Family (HUF), Trusts, Wakf Boards, Handlooms, KVIC etc.) - 9

VI. Whether the unit has ISO Certification, 14000 Series (Block B Item 4):

Yes -1, No -2

VII. Whether the share capital of the company includes share of foreign entities (Block B Item 8):

Yes -1, No -2

VIII. Any R&D unit in your factory (Block B Item 9):

Yes & registered with DST/DBT -1, Yes & registered with others -2 , No – 3

IX. Whether the unit offered any formal training (Block B Item 11):

Yes -1, No -2

X. Description of codes used against unit of quantity in respect of NPCMS codes (Item 4 of Block-H, I and J)

Code	Description	Code	Description
1	Bags	17	Ream
3	Cubic Meter	18	Roll
4	Carat	20	Sq. Metre
6	Gramme	22	Th. Nos
7	K.Litres & Th. Litres	23	Th. Cubic Metre
8	Km	24	Th. K. Litre
9	Kg	25	Th. Pair
12	Litres	27	Tonne
13	Megawatt	28	K. Watt
14	Metres	31	Feet
15	Nos.	38	Cubic Cm
16	Pair		

3. Annual Survey of Industries, 2022-2023
Statement showing the merging of Industries

Sr. No. (1)	Table Description (2)	State/Union Territory (3)	Industry Code (4)	Included in (5)
1	State by 3 digit of NIC 08	Andaman & N Islands	103	104
			110, 201, 222	Other
		Andhra Pradesh	267	265
			275	279
			303	309
			381	382
		Arunachal Pradesh	103, 106	108
			192	191
			259	251
			131, 202, 271	Other
		Assam	101	103
			203	202
			252	259
			281	282
			332	331
			016, 302, 325	Other
		Bihar	152	151
			221	222
			273	272
			274	279
			332	331
			016, 265, 267, 292, 383	Other
		Chandigarh	105	104
			202	201
			243	242
			251, 252	259
			261	265
			274, 275	271
			309	302
			016, 131, 142, 210, 325, 581	Other
		Chattisgarh	143	141
			261, 264	265
			272	274
			323, 325	329
			381	382

Annual Survey of Industries, 2022-2023
Statement showing the merging of Industries

Sr. No. (1)	Table Description (2)	State/Union Territory (3)	Industry Code (4)	Included in (5)
		Dadra & N Haveli & Daman & Diu	103, 105 108 143 161 266 321 151, 152, 309, 382	104 107 141 162 261 324 Other
		Delhi	104 161 252 110, 192	101 162 259 Other
		Goa	108 131 192 243 252 262, 267 272, 274 324 141, 381	104 139 191 242 259 266 279 329 Other
		Gujarat	262 303	263 309
		Haryana	191 252 266 301, 304 332	192 259 267 303 331
		Himachal Pradesh	143 266, 267 322 331, 382, 581	141 261 329 Other
		Jammu & Kashmir	101 151 161 262, 263 274 282 325 292, 331	103 152 162 264 275 281 321 Other

Annual Survey of Industries, 2022-2023
Statement showing the merging of Industries

Sr. No. (1)	Table Description (2)	State/Union Territory (3)	Industry Code (4)	Included in (5)
		Jharkhand	139 142 203 252 279 309 152, 325, 381, 382, 581	131 141 202 259 275 302 Other
		Karnataka	267 323	264 329
		Kerala	203 264 291 304, 309 323 381	202 266 292 303 322 382
		Ladakh	105 106 251 139, 192	103 107 259 Other
		Madhya Pradesh	252 264, 267 323	259 263 329
		Maharashtra	268 322	267 329
		Manipur	105 139 325 151, 191, 202, 241, 251, 259, 271, 279, 282, 331	107 131 321 Other
		Meghalaya	104 201 242 131, 271, 331	108 202 243 Other
		Mizoram	104, 105 161 222 259 181, 202, 210, 241, 243, 279, 292, 322	108 162 221 251 Other

Annual Survey of Industries, 2022-2023
Statement showing the merging of Industries

Sr. No. (1)	Table Description (2)	State/Union Territory (3)	Industry Code (4)	Included in (5)
		Nagaland	101, 105 221 259 131, 202	106 222 251 Other
		Odisha	231 274 279 291 301 303 332 381, 382 152, 265, 321, 325, 581	239 272 275 292 302 309 331 383 Other
		Puducherry	101, 108 143 162 243 252 263, 267 272, 279 309 324 192, 331	107 141 161 242 259 261 274 301 321 Other
		Punjab	142 191 267 291 321 383 120	143 192 263 292 329 382 Other
		Rajasthan	143 191 252 264 266	141 192 259 263 267
		Sikkim	103 221 275 192, 239, 243, 259, 265, 321	105 222 279 Other
		Tamil Nadu	142 268 304 322	143 266 309 329

Annual Survey of Industries, 2022-2023
Statement showing the merging of Industries

Sr. No. (1)	Table Description (2)	State/Union Territory (3)	Industry Code (4)	Included in (5)
		Telangana	102 143 203 266 304 323 332	103 141 202 262 309 324 331
		Tripura	104 191 202 242 131, 331, 383	105 192 201 243 Other
		Uttar Pradesh	182 252 322 332 381 016	181 259 329 331 382 Other
		Uttarakhand	143 191 252 267 016, 332, 383	141 192 259 265 Other
		West Bengal	252 262, 266 323 332 383	259 263 322 331 382
		All-India	182	181

Annual Survey of Industries, 2022-2023
Statement showing the merging of Industries

Sr. No. (1)	Table Description (2)	State/Union Territory (3)	Industry Code (4)	Included in (5)
2	State by 2 digit of NIC 08	Andaman & N Islands	11, 20, 22	Other
		Arunchal Pradesh	13, 20, 27	Other
		Assam	01, 30, 32	Other
		Bihar	01, 26, 29, 38	Other
		Chandigarh	01, 13, 14, 21, 32, 58	Other
		Dadra & N Haveli & Daman & Diu	15, 30, 38	Other
		Delhi	11, 19	Other
		Goa	14, 38	Other
		Himachal Pradesh	33, 38, 58	Other
		Jammu & Kashmir	29, 33	Other
		Jharkhand	15, 32, 38, 58	Other
		Ladakh	13, 19	Other
		Manipur	15, 19, 20, 24, 25, 27, 28, 33	Other
		Meghalaya	13, 27, 33	Other
		Mizoram	18, 20, 21, 24, 27, 29, 32	Other
		Nagaland	13, 20	Other
		Odisha	15, 26, 32, 58	Other
		Puducherry	19, 33	Other
		Punjab	12	Other
		Sikkim	19, 23, 24, 25, 26, 32	Other
		Tripura	13, 33, 38	Other
		Uttar Pradesh	01	Other
		Uttarakhand	01, 33, 38	Other

4. Data Structure of ASI 2022-23					
BLOCK-A (IDENTIFICATION BLOCK FOR OFFICIAL USE)					
Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'A'	Character	2
3	A1	Item 1	DSL	Character	6
4	A2	Item 2	PSL No.	Character	5
5	A3	Item 3	Scheme code (Census-1, Sample-2)	Numeric	1
6	A4	Item4	Ind. Code as per Frame (4-digit Class of NIC-2008)	Character	4
7	A5	Item 5	Ind Code as per Return (5-digit Sub-class of NIC-2008)	Character	5
8	A7	Item 7	State Code	Character	2
9	A8	Item 8	District code	Character	2
10	A9	Item 9	Sector (Rural -1, Urban -2)	Numeric	1
11	A10	Item 10	RO/SRO code	Character	4
12	A11	Item 11	No. of units	Numeric	3
13	A12	Item 12	Status of Unit	Numeric	2
14	BONUS	E Blk item 10	Bonus (in Rs.)	Numeric	14
15	PF	E Blk item 11	Contribution to provident & other funds (in Rs.)	Numeric	14
16	WELFARE	E Blk item 12	Workmen & staff welfare expenses (in Rs.)	Numeric	14
17	MWDAYS	E Blk item 13(i)	Number of working days (Manufacturing days)	Numeric	3
18	NWDAYS	E Blk item 13(ii)	Number of working days (Non-Manufacturing days)	Numeric	3
19	WDAYS	E Blk item 13(iii)	Number of working days (Total)	Numeric	3
20	COSTOP	E Blk item 14	Total Cost of Production	Numeric	14
21	EXPSHARE	J Blk Item 13	Share(%) of products/by-products directly exported	Numeric	3
22	MULT	-	Multiplier (in 9999.99999999 format)	Numeric	14
23	FILLER	-	Padded with 0 or blank		85
	TOTAL				206

** Record Identification Key for Block-A: A1X BLK*

BLOCK-B (TO BE FILLED BY OWNERS)					
Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'B'	Character	2
3	AB01	-	DSL (Block-A, Item 1)	Character	6
4	B02	Item 2	Type of organisation(code)	Numeric	2
5	B03	Item 3	Corporate Identification Number (CIN)	Character	21
6	B04	Item 4	Whether the unit has ISO Certification, 14000 Series	Numeric	1
7	B05	Item 5	Year of initial production	Numeric	4
8	B06F	Item 6	Accounting year (From)	Numeric	6
9	B06T	Item 6	Accounting year (To)	Numeric	6
10	B07	Item7	Number of months of operation	Numeric	2
11	B08	Item8	Whether the share capital of the company includes share of foreign entities? (Yes-1, No-2)	Numeric	1
12	B09	item 9	Any R&D unit in your factory? (yes & registered with DST/DBT-1, yes & registered with others-2, no-3)	Numeric	1
13	B11	item11	Whether the unit offered any formal training (Yes-1, No-2)	Numeric	1
15	FILLER	-	Padded with 0 or blank		151
	TOTAL				206

** Record Identification Key for Block-B:AB01 X BLK*

BLOCK-C (FIXED ASSETS)

Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'C'	Character	2
3	AC01	-	DSL (Block-A, Item 1)	Character	6
4	C_I1	Col. 1	SL. No. (to be entered as printed in the schedule)	Numeric	2
5	C_I3	Col. 3	Gross Value Opening as on	Numeric	14
6	C_I4	Col. 4	Gross Value of Addition due to Revaluation	Numeric	14
7	C_I5	Col. 5	Gross Value of Actual addition	Numeric	14
8	C_I6	Col. 6	Gross Value of Deduction & adjustment during the year	Numeric	14
9	C_I7	Col. 7	Gross Value Closing as on	Numeric	14
10	C_I8	Col. 8	Depreciation Up to year beginning	Numeric	14
11	C_I9	Col. 9	Depreciation Provided during the year	Numeric	14
12	C_I10	Col. 10	Depreciation due to Adjustment for sold/ discarded during the year	Numeric	14
13	C_I11	Col. 11	Depreciation Up to year end	Numeric	14
14	C_I12	Col. 12	Net Value Opening as on	Numeric	14
15	C_I13	Col. 13	Net Value Closing as on	Numeric	14
16	FILLER	-	Padded with 0 or blank		40
	TOTAL				206

* Record Identification Key for Block-C: AC01 X BLK X C_I1

BLOCK-D (WORKING CAPITAL AND LOANS)

Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'D'	Character	2
3	AD01	-	DSL (Block-A, Item 1)	Character	6
4	D_I1	Col. 1	SL. No. (to be entered as printed in the schedule)	Numeric	2
5	D_I3	Col. 3	Opening (Rs.)	Numeric	14
6	D_I4	Col. 4	Closing (Rs.)	Numeric	14
7	FILLER	-	Padded with 0 or blank		166
	TOTAL				206

* Record Identification Key for Block-D:AD01 X BLK X D_I1

BLOCK-E (EMPLOYMENT AND LABOUR COST)

Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'E'	Character	2
3	AE01	-	DSL (Block-A, Item 1)	Character	6
4	E_I1	Col. 1	SL. No. (to be entered as printed in the schedule)	Numeric	2
5	E_I3	Col. 3	Mandays Worked (Manufacturing)	Numeric	8
6	E_I4	Col. 4	Mandays Worked (Non Manufacturing)	Numeric	8
7	E_I5	Col. 5	Mandays Worked (Total)	Numeric	10
8	E_I6	Col. 6	Average Number of persons worked	Numeric	8
9	E_I7	Col. 7	No. of mandays paid for	Numeric	10
10	E_I8	Col. 8	Wages/salaries (in Rs.)	Numeric	14
11	FILLER	-	Padded with 0 or blank		136
	TOTAL				206

* Record Identification Key for Block-E:AE01 X BLK X E_I1

BLOCK-F (OTHER EXPENSES)

Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'F'	Character	2
3	AF01	-	DSL (Block-A, Item 1)	Character	6
4	F1	Item 1	Work done by others on materials supplied by the industrial undertaking	Numeric	14
5	F2A	Item 2 (i)	Repair & maintenance of Building & Other construction	Numeric	14
6	F2B	Item 2 (ii)	Repair & maintenance of Other fixed assets	Numeric	14
7	F3	Item 3	Operating expenses	Numeric	14
8	F4	Item 4	Expenses on raw materials and other components for own construction	Numeric	14
9	F5	Item 5	Insurance Charges	Numeric	14
10	F6	Item 6	Rent paid for Plant & Machinery and other Fixed assets	Numeric	14
11	F7	Item 7	Expenses on Research & Development (R&D)	Numeric	14
12	F8	Item 8	Rent paid for Buildings	Numeric	14
13	F9	Item 9	Rent paid for land on lease or royalties on mines, quarries and similar assets	Numeric	14
14	F10	Item 10	Interest paid	Numeric	14
15	F11	Item 11	Purchase value of goods sold in the same condition as purchased	Numeric	14
16	F12	Item12	Inward transportation cost	Numeric	14
17	F13	Item13	Outward transportation cost	Numeric	14
18	FILLER	-	Padded with 0 or blank		0
	TOTAL				206

* Record Identification Key for Block-F: AF01 X BLK

BLOCK-G (OTHER OUTPUT/RECEIPTS)

Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'G'	Character	2
3	AG01	-	DSL (Block-A, Item 1)	Character	6
4	G1	Item 1	Receipts from manufacturing services (including work done for others on materials supplied by them and sale value of waste left by the party)	Numeric	14
5	G2	Item 2	Receipts from non-manufacturing services (including non-industrial services)	Numeric	14
6	G3	Item 3	Value in electricity generated and sold.	Numeric	14
7	G4	Item 4	Value of own construction	Numeric	14
8	G5	Item 5	Net balance of goods sold in the same condition as purchased	Numeric	14
9	G6	Item 6	Rent received for Plant & Machinery and other fixed assets	Numeric	14
10	G7	Item 7	Variation in stock of semi-finished goods	Numeric	14
11	G8	Item 8	Rent received for buildings	Numeric	14
12	G9	Item 9	Rent received for land on lease or royalties on mines, quarries and similar assets	Numeric	14
13	G10	Item 10	Interest received	Numeric	14
14	G11	Item 11	Sale value of goods sold in the same condition as purchased	Numeric	14
15	G12	Item 12	Other production subsidies	Numeric	14
16	FILLER	-	Padded with 0 or blank		28
	TOTAL				206

* Record Identification Key for Block-G: AG01 X BLK

BLOCK-H (INPUT ITEMS - Indigenous items consumed)

Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'H'	Character	2
3	AH01	-	DSL (Block-A, Item 1)	Character	6
4	H_I1	Col. 1	SL. No. (to be entered as printed in the schedule)	Numeric	3
5	H_I3	Col. 3	Item code (NPCMS)	Character	7
6	H_I4	Col. 4	Unit of quantity (code)	Numeric	3
7	H_I5	Col. 5	Quantity consumed (9999999999.99)	Numeric	14
8	H_I6	Col. 6	Purchase value (in Rs.)	Numeric	14
9	H_I7	Col. 7	Rate per unit (in Rs.) (9999999999.99)	Numeric	14
10	FILLER	-	Padded with 0 or blank		141
	TOTAL				206

* Record Identification Key for Block-H: AH01X BLK X H_I1

BLOCK-I (INPUT ITEMS - Directly imported items only (consumed))

Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'I'	Character	2
3	AI01	-	DSL (Block-A, Item 1)	Character	6
4	I_I1	Col. 1	SL. No. (to be entered as printed in the schedule)	Numeric	2
5	I_I3	Col. 3	Item code (NPCMS)	Character	7
6	I_I4	Col. 4	Unit of quantity (code)	Numeric	3
7	I_I5	Col. 5	Quantity consumed (9999999999.99)	Numeric	14
8	I_I6	Col. 6	Purchase value (in Rs.)	Numeric	14
9	I_I7	Col. 7	Rate per unit (in Rs.) (9999999999.99)	Numeric	14
10	FILLER	-	Padded with 0 or blank		142
	TOTAL				206

* Record Identification Key for Block-I: AI01 X BLK X I_I1

BLOCK-J (PRODUCTS AND BY-PRODUCTS (Manufactured by the unit))

Srl.No.	Field Name	Sch. Ref.	Description	Type	Width
1	YR	-	'23' for ASI 2022-2023	Character	2
2	BLK	-	Block code, Always 'J'	Character	2
3	AJ01	-	DSL (Block-A, Item 1)	Character	6
4	J_I1	Col. 1	SL. No. (to be entered as printed in the schedule)	Numeric	3
5	J_I3	Col. 3	Item code (NPCMS)	Character	7
6	J_I4	Col. 4	Unit of quantity (code)	Numeric	2
7	J_I5	Col. 5	Quantity manufactured (9999999999.99)	Numeric	14
8	J_I6	Col. 6	Quantity sold (9999999999.99)	Numeric	14
9	J_I7	Col. 7	Gross sale value (Rs.)	Numeric	14
10	J_I8	Col. 8	Goods and Services Tax (GST) (Rs.)	Numeric	14
11	J_I9	Col. 9	Excise Duty/ Sales Tax/VAT/ Other Taxes, if any (Rs.)	Numeric	14
12	J_I10	Col. 10	Others (Rs.)	Numeric	14
13	J_I11	Col. 11	Subsidy (Rs.)	Numeric	14
14	J_I12	Col. 12	Per unit net sale value (Rs.) (9999999999.99)	Numeric	14
15	J_I13	Col. 13	Ex-factory value of quantity manufactured (Rs.)	Numeric	14
16	FILLER	-	Padded with 0 or blank		58
	TOTAL				206

* Record Identification Key for Block-J: AJ01 X BLK X J_I1

5. Note on unit level data of ASI 2022-23

This document describes information regarding ASI 2022-23 data from the point of data processing. Users of the data are requested to read this document carefully before they attempt to process the unit level data for their own purpose. They are also requested to refer to the schedule and the instruction manual for filling up the schedule before interpreting contents of various data fields.

Tabulation procedure

The tabulation procedure by Enterprise Survey Division (EnSD), NSO includes both the ASI 2022-23 data and the extracted data from ASI 2021-22 for all tabulation purpose. For calculation of various parameters, users are requested to refer tabulation programme/instruction manual. Please note that weight (Multiplier) is available for each unit against records belonging to Block-A (please refer to STRUCT23.pdf) for ASI 2022-23 data. The multiplier is calculated for each stratum (i.e. State X District X Sector X NIC-2008 (3 Digit)) after adjusting the non-response cases, as per the sampling design adopted in ASI 2022-23.

It may please be noted that, tables generated from the merged data may not tally with the published results for few industries, since the merging for published data has been done at aggregate-level to minimize the loss of information.

6. Annual Survey of Industries, 2022-23

Flow Chart for Tabulation Program

Volume – I (Tables – 1 & 2)

Srl.	Description	Formula
1	No. of factories	A_{11} , for $A_{12}=1,2,3$ and 4
2	Factories in operation	A_{11} , for $A_{12}=1,2$ and 3
3	Fixed Capital	$\sum_{i=1}^9 C_{i,13}$ For $i \neq 8$
4	Physical Working Capital	$\sum_{i=1}^6 D_{i,4}$ For $i \neq 4$
5	Working Capital	Srl. 4 + $D_{8,4} + D_{9,4} + D_{10,4} - (D_{12,4} + D_{13,4} + D_{14,4})$
6	Invested Capital	Srl. 3 + Srl. 4
7	Gross Value of additions to fixed capital	$\sum_{i=1}^9 C_{i,5}$ for $i \neq 8$
8	Rent paid	$F_{9,3}$
9	Outstanding Loan	$D_{17,4}$
10	Interest paid	$F_{10,3}$
11	Rent received	$G_{9,3}$
12	Interest Received	$G_{10,3}$
13	Gross Value of P&M	$C_{3,3} + C_{3,4} + C_{3,5} - C_{3,6}$
14	Value of Products & By-products	$\sum_{i>0, i \neq 12} J_{i,13} + G_{7,3}$
15	Other Output	$G_{1,3} + G_{2,3} + G_{3,3} + G_{4,3} + G_{6,3} + G_{8,3} + G_{11,3} + F_{7,3}$
16	Total Output	Srl. 14 + Srl. 15
17	Fuels consumed	$H_{16,6} + H_{17,6} + H_{18,6} + H_{19,6} + H_{20,6}$
18	Materials consumed for Manufacturing	$\sum_{i=1}^{11} H_{i,6} + \sum_{i>24} H_{i,6} + H_{13,6} + H_{14,6} + H_{21,6} + \sum_{i>0, i \neq 7} I_{i,6}$
19	Other Input	$F_{1,3} + F_{2(i),3} + F_{2(ii),3} + F_{3,3} + F_{4,3} + F_{6,3} + F_{7,3} + F_{8,3} + F_{11,3}$
20	Total Input	Srl. 17 + Srl. 18 + Srl. 19
21	GVA	Srl. 16 minus Srl. 20
22	Depreciation	$\sum_{i=1}^9 C_{i,9}$ For $i \neq 8$
23	NVA	Srl. 21 minus Srl. 22
24	Net Fixed Capital Formation (NFCF)	$\sum_{i=1}^9 (C_{i,13} - C_{i,12} - C_{i,4}) + F_{7,3}$ For $i \neq 8$

Srl.	Description	Formula
25	Gross Fixed Capital Formation (GFCF)	Srl. 24 + Srl. 22
26	Addition in stock of:	
	(a) Materials, Fuels etc.	$\sum_{i=1}^3 (D_{i,4} - D_{i,3})$
	(b) Semi-Finished Goods	$(D_{5,4} - D_{5,3})$
	(c) Finished Goods	$(D_{6,4} - D_{6,3})$
	(d) Total	$(a) + (b) + (c)$
27	Gross Capital Formation	Srl. 25 + Srl. 26(d)
28	Net income	Srl. 23 – (F _{9,3} + F _{10,3})
29	Profit	Srl. 28 – $\sum_{i=1, i \neq 3,5}^7 E_{i,8} - E_{10,8} - E_{11,8} - E_{12,8}$
<i>Volume – I(Tables – 3 & 4)</i>		
A	Average no. of persons engaged	$\sum_{i=1, i \neq 3,5}^8 E_{i,6}$
1	Workers	$E_{1,6} + E_{2,6} + E_{4,6}$
1.1	Directly employed	$E_{1,6} + E_{2,6}$
1.1.1	Men	$E_{1,6}$
1.1.2	Women	$E_{2,6}$
1.2	Employed through Contractors	$E_{4,6}$
2	Employees other than worker	$E_{6,6} + E_{7,6}$
2.1	Supervisory & Managerial Staff	$E_{6,6}$
2.2	Other employees	$E_{7,6}$
3	Unpaid family members/proprietor etc.	$E_{8,6}$
B	Man-days employed, Total	$\sum_{i=1, i \neq 3,5}^7 E_{i,5}$
C	Wages & Salaries, Employer's Contribution	1 + 2 (As defined below)
1	Wages & Salaries including Bonus	1.1 + 1.2 (As defined below)
1.1	Wages & Salaries	1.1.1 + 1.1.2 + 1.1.3 (As defined below)
1.1.1	Workers	$E_{1,8} + E_{2,8} + E_{4,8}$
1.1.2	Supervisory & Managerial Staff	$E_{6,8}$
1.1.3	Other Employees	$E_{7,8}$
1.2	Bonus to all Staff	$E_{10,8}$
2	Employer's Contribution etc.	$E_{11,8} + E_{12,8}$
<i>Volume – I (Tables – 5 & 6) Fuels Consumed</i>		
1	Coal Consumed	$H_{18,6}$

Srl.	Description	Formula
2	Electricity Purchased	$H_{16,6}$
3	Petroleum Products	$H_{17,6}$
4	Gas Consumed	$H_{19,6}$
5	Other Fuels	$H_{20,6}$

Remarks:

- Alphabets in italics under the 'Formula' column represent the block codes used in the schedule
- Unless otherwise mentioned, the symbols are of the form Block with suffix $\langle \text{Block Row, Column} \rangle$. For example $E_{8,7}$ represents Row with serial number 8 and column number 7 of Block E.
- 'No. of factories' in Volume I are calculated for $A_{12} = 1, 2, 3$ and 4.
- 'Factories in operation' in Volume I are calculated for $A_{12} = 1, 2$ and 3.
- All other parameters in Volume I are calculated for $A_{12} = 1, 2$ and 3.
- For calculation of closing values 'Addition due to revaluation' (Column 4 of Block C) has not been considered.
- For calculating 'Gross Value of Plant & Machinery' (sl. no. 13) against "Volume I (Tables 1 & 2)" $C_{3,7}$ has been used in place of $C_{3,3} + C_{3,4} + C_{3,5} - C_{3,6}$ because of non-availability of information in the schedule.
- Similarly, for calculating 'Man-days employed, Total' (sl. no. B) against "Volume I (Table 3 & 4)", $E_{9,5}$ has been used in place of $\sum_{i=1, i \neq 3,5} E_{i,5}$ because of non-availability of constituent items in the schedule.