

The Edit Checks

1. Serial number should be unique. Last two digits of the serial number should be in the range of 00-99. ✓
- ✓ 2. District code must be present & lie in the range 01-24 and should be equal to 1st two digits of serial number. ✓
- ✓ 3. Electorate code must present and lie in the range 001-160. ✓
- ✓ 4. Ward/G.S.Division and A.G.A. must be present and must be in accordance with the given District - Code List. ✓
- ✓ 5. E.C/U.C. code must be in accordance with the district code list if present. ✓
- ✓ 6. Industry (ISIC) four digit code must be present and should be one in the given list.
- ✓ 7. Industrial sector must be in the range 1-5. ✓
8. In questions 13,14,15,16 & 17 if any field is present then it should be numeric.
- ✓ 9. (a) In 13(i), If 8 digit industry code is present, then it should correspond to one in the given commodity code list and the first four digits must be the same as Industry (ISIC) four digit code, in question 11. ✓

10 (a) If $q(i) \neq$ blank for any $j = 1 \dots 9$

$$q(vi)_j + q(xii)_j - q(x)_j > 0$$

for any $j = 1 \dots 8$

$$q(v)_j + q(xi)_j - q(ix)_j > 0 \text{ for that } j$$

Contd.. p2

99 (b) If $q(i)_j = \text{blank}$ for $j = 1 \dots\dots 9$,
then question 14 should be filled and should be positive.

ab (c) If $q(i)_j \neq \text{blank}$ for any $j = 1 \dots\dots 8$, $q(iii)_j$ should be present and must correspond to ones appearing in the given product code-list.

11. (a) If any field from $q(iii)$ to $q(xix)$ is present, $q(i)_j$ should be present.

(b) For all ISIC 8 digit codes other than major division 2, if $q(i)_j$ is present, $q(iv)_j$ should be present.

(c) For $j = 1 \dots\dots 8$, $q(iii)_j = \text{blank}$, then $q(i)_j = \text{blank}$

12. for $j = 1 \dots\dots 8$ If both $q(v)_j$ & $q(vii)_j$ are present side message

(a) $q(v)_j \neq \text{blank}$, Then $q(iv)_j \neq \text{blank}$ and vice versa.

(b) $q(vii)_j \neq \text{blank}$, then $q(viii)_j \neq \text{blank}$ and vice versa.

(c) $q(v)_j \geq q(vii)_j$

13. For ISIC major division 3, and $j=1 \dots\dots 8$

$Rcj = q(xiii)_j + q(xiv)_j + q(xv)_j + q(xvii)_j - q(xvi)_j - q(xviii)_j > 0$

14. For $j=1 \dots\dots 8$

(a) If $q(ix) \neq \text{blank}$, and $q(x) = \text{blank}$ or vice versa, then compute the corresponding figure using $q(x)_j = p_j \times q(ix)_j$

$$\text{where } P_j = \frac{q(vi)_j}{q(v)_j}$$

If $q(xi) \neq \text{blank}$, and $q(xii) = \text{blank}$ or vice versa,

use the formula $q(xii)_j = p_j \times q(xi)_j$ where $p_j = \frac{q(vi)_j}{q(v)_j}$

Contd...p3

15. For $j = 1 \dots 9$

- (a) If $q(i) \neq \text{blank}$, $q(xix)a_j$ and $q(xix)b_j$ should be present and lie in the range 01-30.
- (b) If the code $q(xix)a_j$ is present, the value of $q(vi)_j$, should lie in the range corresponding to the code in $q(xix)a_j$.
- (c) If the code $q(xix)b_j$ is present, the value in $q(xii)_j$ should lie in the range corresponding to the code in $q(xix)b_j$.

List of ranges and corresponding codes are given)

16. For $j = 1 \dots 8$

- (a) If $R(ii)_j \neq \text{blank}$, then $R(iii)_j$ or both should be present and vice versa.

- (b) If $R(iii)_j \neq \text{blank}$, then $R(iv)_j \neq \text{blank}$ or vice versa. otherwise input missing $R(iii)_j$ or $R(iv)_j$ as follows:

$$R(iv)_j = P_j \times R(iii)_j$$

$$\text{or } R(iii)_j = \frac{1}{P_j} \times R(iv)_j \text{ where}$$

P_j 's are the midpoints of the following inequalities.

$$1.00 \leq P_1 \leq 3.00$$

$$5.00 \leq P_7 \leq 8.00$$

$$3.00 \leq P_2 \leq 15.00$$

$$50.00 \leq P_8 \leq 200.00$$

$$2.50 \leq P_3 \leq 5.00$$

$$12.00 \leq P_4 \leq 15.00$$

$$7.00 \leq P_5 \leq 9.00$$

$$5.50 \leq P_6 \leq 9.00$$

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85th present - 4 -

- (c) If both $R(iii)_j$ and $R(iv)_j$ are present, check the calculated P_j is within the above range.

$$\text{Where } P_j = \frac{R(iv)_j}{R(iii)_j} \text{ for } j = 1 \dots 8.$$

*Give message
Invalid PJ.*

17. (a) If either $T(ii) 1a$ or $T(iii) 1a$ or both are present, then $T(iv) 1a$ should be present or vice versa.

- (b) If either $T(ii) 1b$ or $T(iii) 1b$ or both are present, then $T(iv) 1b$ should be present or vice versa.

- (c) If either $T(ii) 2a \neq \text{blank}$ or $T(iii) 2a \neq \text{blank}$ then $T(iv) 2a \neq \text{blank}$. 10

If either $T(ii) 2b \neq \text{blank}$ or $T(iii) 2b \neq \text{blank}$ then $T(iv) 2b \neq \text{blank}$. 17

If either $T(ii) 2c \neq \text{blank}$ or $T(iii) 2c \neq \text{blank}$ then $T(iv) 2c \neq \text{blank}$. 57

If either $T(ii) 2d \neq \text{blank}$ or $T(iii) 2d \neq \text{blank}$ then $T(iv) 2d \neq \text{blank}$ or vice versa. 58

$$(d) T = T(ii)1a + T(iii)1a + T(ii)1b + T(iii)1b + T(ii)2a + T(iii)2a + T(ii)2b + T(iii)2b + T(ii)2c + T(iii)2c + T(ii)2d + T(iii)2d + T(ii)3 + T(iii)3 + T(ii)4 + T(iii)4 \geq 1. \quad 76$$

18. For all ISJC other than major division 2, if $q(i)_j$ is present and $q(iv)_j = \text{blank}$, use the following relationship.

$$q(iv)_j = q(v)_j + q(xi)_j - q(ix)_j$$

19. Define
- (a) Output Quantity = O_{qj}
 - (b) Output Value = O_{vj}
 - (c) Raw material Consumption R_{cj}
 - (d) Input value = I_v as follows.

$$(a) \dots O_{qj} = q(v)_j + q(xi)_j - q(ix)_j \quad \text{for } j = 1 \dots 8$$

$$(b) \quad O_{vj} = q(vi)_j + q(xii)_j - q(x)_j \quad \text{for } j = 1 \dots 9$$

$$(c) \quad R_{cj} = q(xiii)_j + q(xiv)_j + q(xv)_j + q(xvii)_j - q(xvi)_j - q(xviii)_j \\ \text{for } j = 1 \dots 9$$

$$(d) \quad I_v = \sum_{j=1}^9 R_{cj} + \sum_{j=1}^9 R(iv)_j$$

$$(e) \quad O_v = \sum_{j=1}^9 O_{vj} + 14$$

E_{11} (1) If $O_{qj} \neq \text{zero}$, then $O_{vj} \neq \text{zero}$ or vice versa for $j = 1 \dots 8$

E_{12} (2) (i) for $j = 1 \dots 9$, $O_{vj} > R_{cj}$, otherwise reject
(ii)

E_{13} (3) (ii) $O_v > I_v + T$, otherwise reject } 97.

Structural checks

1. Record types 101 and 102 must be present
2. If one of the record types 111, 121, 131, ..., 191 is present corresponding record type 112, 122, 132, ..., 192 must be present.
3. Record types 200, 210, 220, 300, 400, 410 may be present.

If q 14 \neq blank then 3 digit I.S.I.C. Code should be present
q(b) and the first four digits must be the same as Industry (I.S.I.C)
four digit code in question 11, followed by 9999. q,

(If q 14 \neq blank, then range code should be present and it
should correspond to the value in q 14.)