APPENDIX IV

Estimation Procedure

The estimated total value of a variable in h^{th} district for I.S.I.C. three digit category s is given by,

$$\hat{Y}_{hs} = \sum_{i=1}^{j} Y_{hsi} \left(\frac{N_{hsi}}{n_{hsi}} \right.$$

The estimated total value at h^{th} district is given by

$$\hat{Y}_{h} = \sum_{S=1}^{35} \hat{Y}_{hs}$$

The estimated total value at all island levels is given by,

$$\hat{Y}_{h} = \sum_{h=1}^{24} \hat{Y}_{hs}$$

Where

h = district
s = I.S.I.C. three digit level
i = A.G.A./M.C/U.C
j = Total number of A.G.A./M.C/U.C in hth district

N_{hsi} = No. of establishment in hth district in ith A.G.A./M.C/U.C and s^{th} I.S.I.C. three digit category level.

n_{hsi} = Sample number of establishment in hth district in ith A.G.A/M.C/U.C and s^{th} I.S.I.C. three digit category level.

Y_{hsi} = The observed value for y variable in h^{th} district in i^{th} A.G.A./M.C/U.C and s^{th} I.S.I.C. three digit category level.