



Pooled Results
of
Central and State Sample Data of NSS
66th Round



Consumer Expenditure
&
Employment and Unemployment Survey, Manipur

DIRECTORATE OF ECONOMICS & STATISTICS
GOVERNMENT OF MANIPUR
IMPHAL



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PREFACE

The National Statistical Commission (NSC) of India, recommended pooling of Central and State sample data collected under the National Sample Survey Programme, sponsored by the Ministry of Statistics & Programme Implementation (MoSPI), Government of India, with the objective of improving the precision of the estimates at disaggregated level.

The software used by the Directorate of Economics & Statistics, Government of Manipur for pooling of Central and State sample data for the 66th Round of National Sample Survey (NSS) is supplied by Data Processing Division, National Sample Survey Office (NSSO), Ministry of Statistics and Programme Implementation (MoSPI), Government of India.

The pooling exercise is carried out by the Electronics and Data Processing (EDP) Unit of this Directorate, under the overall supervision of Shri. N. Debachandra Singh, Assistant Director. The direct and indirect efforts put in by the officers and staffs in bringing out this Report are also acknowledged with thanks.

I hope this report will be useful to planners, policy makers and researchers. Comments and suggestion from the users for improvement of the publication are most welcome.

Imphal,
The 21st August, 2017

PEIJONNA KAMEI
Director of Economics & Statistics
Manipur.

Chapter-I	Introduction	1-10
	<i>Background</i>	
	<i>Objectives of Pooling</i>	
	<i>Parameters considered for pooling</i>	
	<i>Testing the poolability of two sets of data</i>	
	<i>Methodology of pooling</i>	
	<i>Tables generated</i>	
	<i>Sample size of Manipur</i>	
Chapter-II	Results of Poolability test	11-13
	<i>Table 0.1(R) District wise result of run test of MPCE(URP,MRP,MMRP) for pooled sample</i>	
	<i>Table 0.1(U) District wise result of run test of MPCE(URP,MRP,MMRP) for pooled sample</i>	
	<i>Table 0.2(R) District wise chi-square value of distribution of persons over worker, unemployed and out of labour force for pooled sample</i>	
	<i>Table 0.2(U) District wise chi-square value of distribution of persons over worker, unemployed and out of labour force for pooled sample</i>	
	<i>Table 0.3(R) District wise mean test of MPCE difference(URP,MRP,MMRP) for pooled sample</i>	
	<i>Table 0.3(U) District wise mean test of MPCE difference(URP,MRP,MMRP) for pooled sample</i>	
Chapter-III	Pooled Results of schedule 1.0	14-21
	<i>Table-1.1a(R), 1.1a(U): District wise estimated no of households(00) and their RSEs for central, state and pooled sample</i>	
	<i>Table-1.1b(R), 1.1b(U): District wise estimated no of persons(00), sex ratio and their RSEs for central, state and pooled sample</i>	
	<i>Table-1.6a(R),1.6a(U): District wise estimate of MPCE(URP) for central, state and pooled sample</i>	
	<i>Table-1.6b(R),1.6b(U): District wise estimate of MPCE(MRP) for central, state and pooled sample</i>	
	<i>Table-1.6(R),1.6(U): District wise estimate of RSE of Total MPCE for central, state and pooled sample</i>	
	<i>Table-2.1a(R), 2.1a(U): Estimated no of households(00) and their RSEs for central, state and pooled sample for each decile class of MPCE</i>	
	<i>Table-2.1b(R), 2.1b(U): Estimated no of persons(00), sex ratio and their RSEs for central, state and pooled sample for each decile class of MPCE</i>	
	<i>Table-2.6a: Estimate of MPCE(MMRP) for central, state and pooled sample</i>	
	<i>Table-2.6(b) Estimate of RSE of MPCE (MMRP) for central, state and pooled sample</i>	
Chapter -IV	Pooled Results of schedule 10	22-25
	<i>Table-21.1(R), 21.1(U): District wise estimated no persons(00) for central, state and pooled sample</i>	
	<i>Table-21.2(R), 21.2(U): District wise WPR per 1000(PS+SS) for central, state and pooled sample</i>	
	<i>Table-21.3(R), 21.3(U): District wise LFPR per 1000 for central, state and pooled sample</i>	
	<i>Table-21.4(R), 21.4(U): District wise RSE of LFPR for central, state and pooled sample</i>	
	Abbreviation	26

Chapter-I

INTRODUCTION

1 Background

Since the inception of the National Sample Survey Organization [now known as National Sample Survey Office (NSS)] in 1950, National Sample Survey is conducted regularly to collect socio-economic data employing scientific sampling method. The survey is canvassed for two sets of samples i.e., Central Sample as well as State Sample. The need for pooling central and state sample data was felt for quite some time. However, little progress was made in this respect in terms of evolving a uniform methodology of pooling and also testing for poolability of the two sets of data. In order to maintain uniformity in pooling method and ensure comparability of such pooled data, the National Statistical Commission appointed a committee under the chairmanship of Dr. R. Radhakrishna, Ex-Chairman, National Statistical Commission (NSC) to examine the issues related into the approach to be adopted for pooling etc. The Committee in its report gave a detailed methodology for pooling and also the tests for poolability. Following the recommendations of the Committee, Data Processing Division (DPD) took initiative to provide all kind of technical guidance and support to the states in pooling their data. DPD organized two workshops on 'Pooling Central and State sample NSS data' at New Delhi in January and August, 2013. Detailed procedure of carrying out poolability test of two sets of data- both parametric and non-parametric and also of computation of district-level pooled estimates for a set of important indicators were shown and discussed with the participating States in the said workshops for NSS 66th Round. DPD took its own initiative to develop customised software for poolability tests of two sets of data which can be applied to data of any NSS rounds. Tabulation software for pooling the central and state sample data of NSS 66th round based upon key parameters were developed by DPD and supplied to state DES for the pooling exercise. The customised poolability test software developed by DPD was also supplied to the State DES along with operational instructions so that states following layout other than central sample data layout can also conduct the poolability test using the software at the desired level of domain. Subsequently, pooling workshop was merged with the regional GSDP Workshops of NAD where 2 days were devoted to the discussion/training on pooling.

1.1 Objective of Pooling

One of the objectives of States participation in the National Sample Survey programme, conducted under the aegis of National Sample Survey Office (NSSO), Ministry of Statistics & Programme Implementation (MoSPI), Government of India, is to provide a mechanism by which sample size will be increased and the pooling of the two sets of data, i.e. Central Sample data and State Sample data, can be done so as to generate better estimate at lower sub-state level, particularly at district level. At the State level, this will result in increased precision of the estimates and at disaggregated level, estimates will be more stable. Major benefit will be derived in case estimates are generated at sub-state level like NSS region/districts.

1.2 Parameters considered for pooling:

Considering the smaller sample size at district level, the following broad parameters were considered for pooling.

- a) MPCE of FOOD, Non-FOOD, and Total MPCE derived from detail item for URP, MRP and MMRP
- b) Household size, sex, age
- c) Activity status principal, subsidiary, weekly, daily and their intensity
- d) District level quantile class computation

1.3 Testing the poolability of two sets of data (Central & State Sample):

District wise following tests were undertaken.

- a) **District wise Person's Chi Square test over employed, unemployed and out of labour force**

In statistics, the median test is a special case of Pearson's Chi-square test. It tests the null hypothesis that the medians of the populations from which two samples are drawn, are identical. Observations in each sample are assigned to two groups, one consisting of data whose values are higher than the median value in the two groups combined, and the other consisting of data whose values are at the median or below. A Pearson's Chi-square test is then used to determine whether the observed frequencies in each group differ from expected

frequencies derived from a distribution combining the two groups. Let m^* be the median of the pooled sample data. Construct 2 X 2 contingency table as below and use chi-square test if State sample and Central sample have identical median.

Sample-type	no of sample observation		Total
	$\leq m^*$	$> m^*$	
State Sample	N_{11}	N_{12}	$N_{1.}$
Central Sample	N_{21}	N_{22}	$N_{2.}$
Total	$N_{.1}$	$N_{.2}$	$N_{..}$

Observed frequency of each cell $O_{ij} = N_{ij}$ where $i = 1$ to $2, j = 1$ to 2 .

Expected frequency of each cell $E_{ij} = (N_{i.} * N_{.j}) / N_{..}$ where $i = 1$ to $2, j = 1$ to 2 .

$$\chi^2 \text{ Value} = \sum_{i=1}^2 \sum_{j=1}^2 (O_{ij} - E_{ij})^2 / O_{ij} \text{ with degrees of freedom} = (2-1)*(2-1) = 1$$

The statistical power of this test may sometimes be improved by using a value other than the median to define the groups say quintile classes– that is, by using a value which divides the groups into more nearly equal groups than the median would.

b) District wise Wald-Wolfowitz run test for MPCE (URP, MRP,MMRP) for central and state sample [non parametric Z-test]

Suppose X and Y are independent random samples with cumulative distribution function (CDF) as $F_s(x)$ and $F_c(y)$. Null Hypothesis to be tested is $H_0: F_s(x) = F_c(x)$ for all x against alternative Hypothesis is $H_1: F_s(x) \leq F_c(x)$ for all x and $F_s(x) < F_c(x)$ for some x. Let x_1, x_2, \dots, x_m be iid observation from state sample with distributive function F_s and y_1, y_2, \dots, y_n be iid observation from central sample with distributive function F_c . Pool the data and order them with respect to comparable characteristic under consideration say monthly per capita expenditure (MPCE). In the pooled order sequence put “1” for X and “0” for Y. Let U be the total runs observed where 'run' is a sequence of adjacent equal symbols. For example, following sequence: 1111000111001111110000 is divided in six runs, three of them are made out of “1” and the others are made out of “0”. The number of runs U is a random variable whose distribution for large sample can be treated as normal with:

$$\text{Mean: } \frac{2mn}{m+n} + 1$$

$$\text{Variance: } \frac{2mn(2mn - m - n)}{(m+n)^2(m+n-1)}$$

After normalizing the variable U one may use one sided z-test for testing the Null hypothesis. In extreme case the value of U will be 2 meaning by observed characteristic of all the observation of one sample is less than the other samples.

One of the limitations of this test is when there is a tie between two samples in the observed value. One has to resolve ties in usual manner. However if there is large number of ties which is bound to occur specially for qualitative attributes like education level, activity status etc, this test is not recommended. This test can be well applied for a continuous variable such as MPCE which are less prone to ties. For discrete variable chi-square test is recommended.

c) District wise divergence test for MPCE (URP, MRP,MMRP) between central and state sample [parametric Z-test]

Aggregate Estimate: Let t_{yc} and t_{ys} be the estimate of Y at domain level of pooling based on central and state sample respectively with corresponding variances $V(t_{yc})$ and $V(t_{ys})$. For large sample, making all assumption of parametric test, one may use Z-Statistic to test the null hypothesis $H_0 E(t_{yc}) = E(t_{ys})$ where E stands for expectation.

$$Z = \frac{(t_{yc} - t_{ys})}{\sqrt{(V(t_{yc}) + V(t_{ys}))}}$$

$V(t_{yc})$ and $V(t_{ys})$ could be estimated as

$\hat{V}(t_{yc}) = \sum_l (t_{yc1} - t_{yc2})^2 / 4$, $\hat{V}(t_{ys}) = \sum_l (t_{ys1} - t_{ys2})^2 / 4$ based on sub-sample 1 & 2 estimates where \sum_l stands for summing over stratum x sub-stratum level variance at the domain of pooling.

Estimate of rate: Let r_c and r_s be the estimate of population rates R_c and R_s ie Y/X based on central and state sample respectively with corresponding mean square error $MSE(r_c)$ and

MSE (r_s). For large sample, making all assumption of parametric test, one may use Z-Statistic to test the null hypothesis $H_0 E(r_c)=E(r_s)$ where E stands for expectation.

$$Z = \frac{(r_c - r_s)}{\sqrt{(MSE(r_c) + MSE(r_s))}}$$

MSE(r_c) and MSE(r_s) are estimated as follows:

$$\begin{aligned} \text{mse}(r_c) &= (\hat{V}(t_{yc}) - 2 * r_c \hat{Cov}(t_{yc}, t_{xc}) + r_c^2 * \hat{V}(t_{xc})) / t_{xc}^2 \\ \text{mse}(r_s) &= (\hat{V}(t_{ys}) - 2 * r_s \hat{Cov}(t_{ys}, t_{xs}) + r_s^2 * \hat{V}(t_{xs})) / t_{xs}^2 \end{aligned}$$

where

$$\hat{V}(t_{yc}) = \sum_l (t_{yc1} - t_{yc2})^2 / 4, \quad \hat{V}(t_{ys}) = \sum_l (t_{ys1} - t_{ys2})^2 / 4$$

$$\hat{V}(t_{xc}) = \sum_l (t_{xc1} - t_{xc2})^2 / 4, \quad \hat{V}(t_{xs}) = \sum_l (t_{xs1} - t_{xs2})^2 / 4$$

$$\hat{Cov}(t_{yc}, t_{xc}) = \sum_l (t_{yc1} - t_{yc2})(t_{xc1} - t_{xc2}) / 4 \quad \text{based on sub-sample 1 \& 2}$$

estimates.

where \sum_l stands for summing over stratum x sub-stratum level variance, covariance at the domain of pooling.

1.4 Methodology of pooling:

a) Pooling by inverse weight of the variance of the estimates

- (i) Aggregate estimate: For any characteristic, consider the state sample [s] in the form of two independent sub- sample s1 and s2 and the central sample [c] in the form of two independent sub- sample c1 and c2. Based on this, the respective estimates for state and central can be computed as:

$$t_s = \sum_l (t_{s1} + t_{s2}) / 2 \quad \text{and} \quad t_c = \sum_l (t_{c1} + t_{c2}) / 2$$

Pooled estimate leading to optimum combination of these two estimates is given by weighing with inverse of the variance of the estimate. Thus the pooled estimate is given by:

$$T_p = \frac{V(t_c)t_s + V(t_s)t_c}{V(t_c) + V(t_s)} \text{ with } V(T_p) = \frac{V(t_c)V(t_s)}{V(t_c) + V(t_s)}$$

In general $V(t_c)$ and $V(t_s)$ are unknown and can be estimated as

$$\hat{V}(t_c) = \sum_l (t_{c1} - t_{c2})^2 / 4, \quad \hat{V}(t_s) = \sum_l (t_{s1} - t_{s2})^2 / 4$$

where \sum_l stands for summing over stratum x sub-stratum level variance at the domain of pooling.

Thus pooled estimate and estimate of pooled variance is given by

$$t_p = \frac{\hat{V}(t_c)t_s + \hat{V}(t_s)t_c}{\hat{V}(t_c) + \hat{V}(t_s)}, \quad \hat{V}(t_p) = \frac{\hat{V}(t_c)\hat{V}(t_s)}{\hat{V}(t_c) + \hat{V}(t_s)}$$

- (ii) By virtue of weighing the two estimates at the domain level at which two estimates are pooled, the pooled estimate will always lie between the central and state sample estimates.
- (iii) Estimate of rate: Let r_c and r_s be the estimate of R_c and R_s ie Y/X based on central and state sample respectively with corresponding estimated mean square error $mse(r_c)$ and $mse(r_s)$. The pooled estimate and estimate of variance of pooled ratio estimate may be given by:

$$r_p = \frac{mse(r_c)r_s + mse(r_s)r_c}{mse(r_c) + mse(r_s)}, \quad mse(r_p) = \frac{mse(r_c)mse(r_s)}{mse(r_c) + mse(r_s)}$$

Where $mse(r_c)$ and $mse(r_s)$ are calculated using formula given in para (iii) above.

Alternatively one can generate the pooled estimate of aggregate by inverse weight of estimate of variance obtained from central and state sample using formula given in para (i) for the characteristics x as well as y and obtain the pooled estimate of ratio as ratio of pooled estimate of aggregate. This will ensure consistency between pooled estimates of aggregate and the pooled estimate of ratio.

Let t_{xp} and t_{yp} be the pooled estimate of aggregate for the parameter X and Y. The pooled estimate of R (i.e Y/X) is given by

$$r_p = t_{yp} / t_{xp}$$

where $t_{yp} = at_{yc} + bt_{ys}$ and $t_{xp} = ct_{xc} + dt_{xs}$ and (a, b), (c, d) are the estimated inverse variance weight pair of the characteristic x and y respectively.

The estimated mse of pooled ratio estimate r_p is given by:

$$\text{mse}(r_p) = (\hat{V}(t_{yp}) - 2 r_p \hat{Cov}(t_{yp}, t_{xp}) + r_p^2 \hat{V}(t_{xp})) / t_{xp}^2$$

where $\hat{V}(t_{yp}) = \frac{ab}{a+b}$, $\hat{V}(t_{xp}) = \frac{cd}{c+d}$ and

$$\hat{Cov}(t_{yp}, t_{xp}) = ac \hat{Cov}(t_{yc}, t_{xc}) + bd \hat{Cov}(t_{ys}, t_{xs}).$$

$$\hat{Cov}(t_{yc}, t_{xc}) = \sum_l (t_{yc1} - t_{yc2})(t_{xc1} - t_{xc2}) / 4 \text{ based on sub-sample 1 \& 2 estimates.}$$

$$\text{Similarly, } \hat{Cov}(t_{ys}, t_{xs}) = \sum_l (t_{ys1} - t_{ys2})(t_{xs1} - t_{xs2}) / 4$$

where \sum_l stands for summing over stratum x sub-stratum level covariance at the domain of pooling.

(iv) Method laid down in para i and ii requires calculation of estimate of variance of the estimates before pooling them. Reliability of estimate of variance should be ascertained with due consideration of sample size. Besides the complex calculations of variances and covariances for each cell of the table, one needs to address the issue of non-additivity of the component estimates with the estimate of marginal total. For e.g. pooled estimate of MPCE of FOOD and NON-FOOD may not add up to MPCE of TOTAL. To obviate this problem one may generate the pooled estimates of components first and then derive the estimate of total as sum of estimates of components.

b) Pooling by simple average of the estimates

i) Many of the States are not fully equipped with complex calculation of estimate of variance especially when cells of the table contains ratio of two characteristics which is usually presented in the NSS reports. When the State's participation is equal matching of central samples, the simple average of two estimates may be a way of combining the estimates considering central and state samples as independent samples. The pooled estimate will always lie between the estimates based on central and state sample separately.

ii) When the State's participation is of unequal matching of central samples, the weighted average of two estimates with weights being matching ratio of central and state sample may be a better way of combining the estimates considering central and

state samples as independent samples. For any characteristic, consider the state sample [s] in the form of two independent sub-sample s1 and s2 and the central sample [c] in the form of two independent sub- sample c1 and c2. Let matching ratio of state and central sample be m : n. Based on this, the respective estimates for state and central can be computed as:

$$t_s = \sum_l (t_{s1} + t_{s2})/2 \text{ and } t_c = \sum_l (t_{c1} + t_{c2})/2$$

Pooled estimate of these two estimates is given by weighing with matching participation rate m:n. Thus the pooled estimate is given by:

$$t_p = \frac{mt_s + nt_c}{m+n} \text{ with } V(t_p) = \frac{m^2 V(t_s) + n^2 V(t_c)}{(m+n)^2}$$

In general $V(t_c)$ and $V(t_s)$ can be estimated as $\hat{V}(t_c) = \sum_l (t_{c1} - t_{c2})^2 / 4$,

$$\hat{V}(t_s) = \sum_l (t_{s1} - t_{s2})^2 / 4 \text{ and thus } \hat{V}(t_p) = \frac{m^2 \hat{V}(t_s) + n^2 \hat{V}(t_c)}{(m+n)^2}$$

The pooled estimate will always lie between the estimates based on central and state sample separately.

- (c) **Summing up:** For those characteristics which are known to be distributed as Normal, poolability of the two sets of central and state data may be tested by standard parametric tests such as Z-test. For those characteristics for which transformation makes them Normal, such methodology may be adopted. In most of the situations where the distribution is non-normal and unknown, the two sets of data may be tested through various non-parametric tests such as those laid down in para 1 of above. For discrete data, Standard tests of equality of proportions based on binomial distribution may be used and for multinomial distributions relevant chi-square tests may be used.

1.5 Tables generated:

Following Tables were generated for central, state and pooled sample along with RSEs separately for rural and urban sector.

- a) District wise estimated number of households and persons by sex and sex ratio and average MPCE (URP, MRP, MMRP) for schedule type-I and II

- b) District wise Value of consumption (Rs.0.00) of food, non-food and total per person for a period of 30 days for each Quantile class of MPCE (URP, MRP and MMRP)
- c) District wise estimated no of person and per 1000 distribution of persons over broad activity status such as self-employed, regular wage-salary, casual-labour, unemployed and out of labour force for male, female and persons of age group 15-24 , 15+ and all age for PS+SS status
- d) District wise estimated no of person and per 1000 distribution of persons over broad activity status such as self-employed, regular wage-salary, casual-labour, unemployed and out of labour force for male, female and persons of age group 15-24 , 15+ and all age for CWS status
- e) District wise estimated no of person and per 1000 distribution of persons over broad activity status such as self-employed, regular wage-salary, casual-labour, unemployed and out of labour force for male, female and persons of age group 15-24 , 15+ and all age for CDS status

1.6 Presentation of results:

Summary statements both for poolability test and pooled results for Manipur is shown in Chapter II, III and IV.

1.7 Sample size: Total sample size of Manipur for central and state sample are given below:

MANIPUR-RURAL

Schedule	Central sample			State sample		
	FSU surveyed	HH surveyed	Persons Surveyed	FSU surveyed	HH surveyed	Persons Surveyed
1.0 Type-I	172	1376	7368	344	2751	14052
1.0 Type-II	172	1376	7380	344	2752	14164
10	172	1376	7097	344	2748	13478

MANIPUR-URBAN

Schedule	Central sample			State sample		
	FSU surveyed	HH surveyed	Persons Surveyed	FSU surveyed	HH surveyed	Persons Surveyed
1.0 Type-I	148	1182	5820	296	2367	11858
1.0 Type-II	148	1182	5918	296	2363	12068
10	148	1182	5578	296	2359	11289

MANIPUR-COMBINED

Schedule	Central sample			State sample		
	FSU surveyed	HH surveyed	Persons Surveyed	FSU surveyed	HH surveyed	Persons Surveyed
1.0 Type-I	320	2558	13188	640	5118	25910
1.0 Type-II	320	2558	13298	640	5115	26232
10	320	2558	12675	640	5107	24767

Chapter-II

POOLABILITY TEST

State: MANIPUR Sector: RURAL [SCHEDULE 1.0 TYPE-I and TYPE-II] RUN TEST							
Table-0.1 (R): District wise result of run test of MPCE(URP,MRP,MMRP) for pooled sample							
$Z_{0.01} = - 2.33$ [one sided test] reject if z-value $< Z_{0.01}$							
District		URP		MRP		MMRP	
Code	Name	Z-value	Accept	Z-value	Accept	Z-value	Accept
1	Senapati	-3.06687	N	-0.30669	Y	0.498367	Y
2	Tamenglong	-12.6229	N	-9.43393	N	-9.5668	N
3	Churachandpur	-1.03237	Y	-1.50163	Y	0	Y
4	Bishnupur	1.30342	Y	-3.06687	N	1.533435	Y
5	Thoubal	-2.44015	N	-1.40778	Y	-2.81556	N
6	Imphal West	-2.06803	Y	-1.24537	Y	-0.7541	Y
7	Imphal East	-0.83965	Y	-2.46477	N	-1.24593	Y
8	Ukhrul	-0.5367	Y	-1.34176	Y	-1.57177	Y
9	Chandel	-2.25883	Y	0.132872	Y	-1.19585	Y

State: MANIPUR Sector: URBAN [SCHEDULE 1.0 TYPE-I and TYPE-II] RUN TEST							
Table-0.1 (U): District wise result of run test of MPCE(URP,MRP,MMRP) for pooled sample							
$Z_{0.01} = - 2.33$ [one sided test] reject if z-value $< Z_{0.01}$							
District		URP		MRP		MMRP	
Code	Name	Z-value	Accept	Z-value	Accept	Z-value	Accept
4	Bishnupur	-0.85694	Y	-2.09092	Y	-1.6903	Y
5	Thoubal	-3.6769	N	-1.07243	Y	-3.88966	N
6	Imphal West	-3.20676	N	-2.48652	N	-3.01237	N
7	Imphal East	-0.70596	Y	0.59735	Y	-3.47549	N
9	Chandel	0.308221	Y	-0.84761	Y	1.695214	Y

State: MANIPUR Sector: RURAL [SCHEDULE 10] CHI-SQUARE TEST

Table-0.2 (R): District wise chi-square value of distribution of persons over worker, unemployed and out of labour force for pooled sample. $\chi^2_{.01} = 9.21$ df = 2 [one sided test] reject if χ^2 -value > $\chi^2_{.01}$

District		PS+SS		CWS		CDS	
Code	Name	χ^2 -value	Accept	χ^2 -value	Accept	χ^2 -value	Accept
1	Senapati	2.215809	Y	1.766847	Y	1.766847	Y
2	Tamenglong	0.557143	Y	0.785601	Y	0.785601	Y
3	Churachandpur	0.201946	Y	0.766761	Y	0.766761	Y
4	Bishnupur	0.380385	Y	0.709292	Y	0.709292	Y
5	Thoubal	6.803663	Y	2.244923	Y	2.244923	Y
6	Imphal West	4.999834	Y	1.867669	Y	1.867669	Y
7	Imphal East	3.81395	Y	2.949194	Y	2.949194	Y
8	Ukhrul	0.723554	Y	0.344639	Y	0.344639	Y
9	Chandel	2.215809	Y	1.766847	Y	1.766847	Y

State: Manipur Sector: URBAN [SCHEDULE 10] CHI-SQUARE TEST

Table-0.2 (U): District wise chi-square value of distribution of persons over worker, unemployed and out of labour force for pooled sample. $\chi^2_{.01} = 9.21$ df = 2 [one sided test] reject if χ^2 -value > $\chi^2_{.01}$

District		PS+SS		CWS		CDS	
Code	Name	Z-value	Accept	Z-value	Accept	Z-value	Accept
4	Bishnupur	0.43956	Y	0.785601	Y	0.785601	Y
5	Thoubal	0.771528	Y	0.989487	Y	0.989487	Y
6	Imphal West	6.163642	Y	0.800253	Y	0.800253	Y
7	Imphal East	9.79495	N	0.246429	Y	0.246429	Y
9	Chandel	0.46968	Y	0.546393	Y	0.546393	Y

State: MANIPUR Sector: RURAL [SCHEDULE 1.0 TYPE-I and TYPE-II] MEAN TEST							
Table-0.3(R): District wise test of MPCE difference(URP,MRP,MMRP) for pooled sample							
$Z_{0.005} = 2.575$ [one sided test] reject if absolute z-value > $Z_{0.005}$							
District		URP		MRP		MMRP	
Code	Name	Z-value	Accept	Z-value	Accept	Z-value	Accept
1	Senapati	1.080765	Y	0.56746	Y	2.081474	Y
2	Tamenglong	78.43629	N	19.82052	N	1.313042	Y
3	Churachandpur	0.724434	Y	0.40144	Y	0.410368	Y
4	Bishnupur	2.900067	N	1.78046	Y	2.657906	N
5	Thoubal	2.187453	Y	3.95488	N	1.015448	Y
6	Imphal West	2.097479	Y	2.09151	Y	1.179604	Y
7	Imphal East	2.513712	Y	2.85919	N	9.809793	N
8	Ukhrul	1.173783	Y	1.51143	Y	0.241975	Y
9	Chandel	2.35902	Y	1.75655	Y	0.723193	Y

State: MANIPUR Sector: URBAN [SCHEDULE 1.0 TYPE-I and TYPE-II] MEAN TEST							
Table-0.3(U): District wise test of MPCE difference(URP,MRP,MMRP) for pooled sample							
$Z_{0.005} = 2.575$ [one sided test] reject if absolute z-value > $Z_{0.005}$							
District		URP		MRP		MMRP	
Code	Name	Z-value	Accept	Z-value	Accept	Z-value	Accept
4	Bishnupur	7.827235	N	89.94473	Y	0.198998	Y
5	Thoubal	5.399547	N	97.57901	N	3.406014	N
6	Imphal West	4.331726	N	846.9366	Y	0.281780	Y
7	Imphal East	0.215695	Y	3543.374	Y	5.365205	N
9	Chandel	0.339382	Y	816.6725	Y	2.251792	Y

Chapter-III
RESULTS OF SCHEDULE 1.0

State: MANIPUR Sector: RURAL [SCHEDULE 1.0 TYPE-I] Pooling method: MATCHING RATIO										
Table-1.1a(R): District wise estimated no of households(00) and their RSEs for central, state and pooled sample										
District		Estimated households (00)			RSE of Estimated households			Sample households		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	Senapati	378	270	432	14.78	7.1	6.84	128	256	384
2	Tamenglong	150	212	242	3.78	1.98	1.46	96	192	288
3	Churachandpur	400	426	551	1.25	5.39	2.13	192	384	576
4	Bishnupur	271	270	360	2.34	2.72	1.35	128	256	384
5	Thoubal	442	408	567	1.61	7.82	2.88	192	384	576
6	Imphal West	420	359	519	2.62	4.53	1.89	160	319	479
7	Imphal East	566	537	735	1.88	3.35	1.42	256	512	768
8	Ukhrul	246	280	350	5.42	2.26	2.11	128	256	384
9	Chandel	196	183	253	9.45	4.11	3.95	96	192	288
Manipur State		3069	2945	4009	2.07	1.76	1.02	1376	2751	4127

State: MANIPUR Sector: URBAN [SCHEDULE 1.0 TYPE-I] Pooling method: MATCHING RATIO										
Table-1.1a(U): District wise estimated no of households(00) and their RSEs for central, state and pooled sample										
District		Estimated households (00)			RSE of Estimated households			Sample households		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
4	Bishnupur	152	169	214	2.92	0.18	1.04	160	320	480
5	Thoubal	275	319	396	5.89	1.35	2.12	288	576	864
6	Imphal West	640	631	847	0.52	0.87	0.38	638	1279	1917
7	Imphal East	66	73	93	2.69	10.89	4.38	64	128	192
9	Chandel	29	28	38	9.06	3.05	3.64	32	64	96
Manipur State		1161	1219	1587	1.5	0.87	0.64	1182	2367	3549

State: MANIPUR Sector: RURAL [SCHEDULE 1.0 TYPE-I] Pooling method: MATCHING RATIO													
Table-1.1b(R): District wise estimated no of persons(00), sex ratio and their RSEs for central, state and pooled sample													
District		Est. persons(00)			RSE of Est. persons			Sex ratio			RSE of Sex ratio		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	Senapati	2123	1263	2257	19.79	11.4	9.84	1077	930	1019	2.64	9.22	4.43
2	Tamenglong	1107	986	1396	0.18	0.36	0.15	970	985	977	3.32	8.82	4.74
3	Churachandpur	1990	2196	2791	7.05	6.54	3.60	854	926	891	8.72	9	6.27
4	Bishnupur	1464	1286	1833	1.16	1.01	0.58	1045	928	989	7.62	4.09	4.46
5	Thoubal	2185	2214	2933	3.94	8.06	3.38	933	935	934	3.02	7.15	3.88
6	Imphal West	2003	1760	2509	3.12	7.03	2.76	908	920	913	5.44	3.33	3.18
7	Imphal East	2653	2700	3569	0.66	1.61	0.66	880	942	911	5.38	1.92	2.78
8	Ukhrul	1502	1580	2055	9.03	1.12	3.33	1007	987	997	1.81	8.72	4.41
9	Chandel	992	995	1324	11.51	5.05	4.71	862	102	941	13.29	0.62	6.10
Manipur State		16018	1498	2066	3.06	2.04	1.40	943	947	945	1.98	2.25	1.50

State: MANIPUR Sector: URBAN [SCHEDULE 1.0 TYPE-I] Pooling method: MATCHING RATIO													
Table-1.1b(U): District wise estimated no of persons(00), sex ratio and their RSEs for central, state and pooled sample													
District		Est persons(00)			RSE of Est persons			Sex ratio			RSE of Sex ratio		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
4	Bishnupur	796	864	1107	5.84	0.81	2.12	897	966	933	1.21	7.4	3.87
5	Thoubal	1352	1707	2039	6.76	2.3	2.44	983	976	979	0.16	0.77	0.39
6	Imphal West	2985	3054	4026	0.85	0.06	0.32	966	922	944	2.73	1.6	1.60
7	Imphal East	286	339	417	3.1	14.01	5.79	1114	920	1004	11.81	6.36	7.17
9	Chandel	164	161	217	6.51	1.14	2.50	922	917	919	0.9	0.35	0.48
Manipur State		5583	6125	7805	1.91	1.01	0.79	966	943	954	1.6	1.39	1.06

State: MANIPUR Sector: RURAL [SCHEDULE 1.0 TYPE-I]

Table-1.6a(R): District wise estimate of MPCE(URP) for central, state and pooled sample

District		Central Sample			State Sample			Pooled_matching_ratio			Pooled_inverse_var		
Code	Name	Food	N-food	Total	Food	N-food	Total	Food	N-food	Total	Food	N-food	Total
1	Senapati	534.97	352.12	887.09	485.87	494.44	980.31	516.66	405.2	921.86	42.93	2137.34	1859.92
2	Tamenglong	488.62	436.9	925.52	632.77	1236.94	1869.71	556.53	813.81	1370.35	0.85	27.13	36.23
3	Churachandpur	546.1	383.31	929.41	551.52	299.01	850.54	548.95	339.09	888.03	86.47	2331.05	2963.23
4	Bishnupur	449.87	453.48	903.36	489.93	518.34	1008.27	468.6	483.81	952.42	345.09	47.54	327.16
5	Thoubal	469.78	257.48	727.26	524.84	289.52	814.36	497.49	273.6	771.1	74.16	230.98	396.37
6	Imphal West	552.4	604.66	1157.05	508.8	496.33	1005.13	532	553.99	1085.99	46.31	1247.44	1311.52
7	Imphal East	577.72	397.88	975.6	533.16	411.26	944.42	555.24	404.63	959.87	25.45	43.69	38.46
8	Ukhrul	485.01	347.75	832.76	550.9	375.03	925.93	518.8	361.74	880.54	147.46	772.34	1575.13
9	Chandel	585.25	455.15	1040.39	507.39	332.7	840.09	546.26	393.84	940.1	560.04	472.15	1802.35
Manipur State		524.17	403.33	927.5	530.78	448.34	979.12	527.37	425.08	952.45	12.65	102.48	127.79

State: MANIPUR Sector: URBAN [SCHEDULE 1.0 TYPE-I]

Table-1.6a(U): District wise estimate of MPCE(URP) for central, state and pooled sample

District		Central Sample			State Sample			Pooled_matching_ratio			Pooled_inverse_var		
Code	Name	Food	N-food	Total	Food	N-food	Total	Food	N-food	Total	Food	N-food	Total
4	Bishnupur	466.72	483.99	950.71	477.14	538.6	0.57	472.14	512.4	984.54	52.13	26.43	17.26
5	Thoubal	469.89	301.18	771.07	510.04	325.79	1.55	492.29	314.92	807.21	40.83	109.28	35.96
6	Imphal West	565.73	666.45	1232.18	512.13	476.06	4.56	538.62	570.16	1108.78	72.83	588.79	793.16
7	Imphal East	588.54	420.47	1009.02	525.33	463.67	7.65	554.28	443.88	998.16	308.27	845.32	2155.87
9	Chandel	457.7	248.79	706.48	441.23	240.03	10.28	449.54	244.45	693.99	295.19	578.75	1380.55
Manipur State		526.39	527.1	1053.49	505.48	436.11	3.04	515.45	479.5	994.95	24.37	194.12	260.52

State: MANIPUR Sector: RURAL [SCHEDULE 1.0 TYPE-I]

Table-1.6b(R): District wise estimate of MPCE(MRP) for central, state and pooled sample

District		Central Sample			State Sample			Pooled_matching_ratio			Pooled_inverse_var		
Code	Name	Food	N-food	Total	Food	N-food	Total	Food	N-food	Total	Food	N-food	Total
1	Senapati	534.97	358.83	893.8	485.87	379.08	864.95	516.66	366.38	883.04	42.93	855.44	646.19
2	Tamenglong	488.62	492.39	981.01	632.77	863.38	1496.16	556.53	667.17	1223.71	0.85	161.92	168.88
3	Churachandpur	546.1	383.7	929.8	551.52	348.95	900.48	548.95	365.47	914.42	86.47	917.86	1333.61
4	Bishnupur	449.87	428.82	878.69	489.93	478.13	968.06	468.6	451.88	920.48	345.09	42.70	629.88
5	Thoubal	469.78	316.16	785.94	524.84	371.77	896.61	497.49	344.15	841.64	74.16	39.77	195.76
6	Imphal West	552.4	591.57	1143.97	508.8	501.79	1010.59	532	549.58	1081.58	46.31	680.20	1016.72
7	Imphal East	577.72	513.16	1090.88	533.16	456.79	989.95	555.24	484.73	1039.97	25.45	259.61	311.53
8	Ukhrul	485.01	396.14	881.16	550.9	427.72	978.62	518.8	412.33	931.13	147.46	429.33	1039.48
9	Chandel	585.25	435.37	1020.62	507.39	353.56	860.95	546.26	394.41	940.67	560.04	605.46	2065.69
Manipur State		524.17	434.63	958.8	530.78	445.84	976.62	527.37	440.04	967.41	12.65	61.21	90.27

State: MANIPUR Sector: URBAN [SCHEDULE 1.0 TYPE-I]

Table-1.6b(U): District wise estimate of MPCE(MRP) for central, state and pooled sample

District		Central Sample			State Sample			Pooled_matching_ratio			Pooled_inverse_var		
Code	Name	Food	N-food	Total	Food	N-food	Total	Food	N-food	Total	Food	N-food	Total
4	Bishnupur	466.72	470.78	937.5	477.14	493.98	971.12	472.14	482.85	954.99	52.13	57.57	89.94
5	Thoubal	469.89	353.48	823.37	510.04	396.22	906.26	492.29	377.33	869.62	40.83	107.37	97.58
6	Imphal West	565.73	648.83	1214.56	512.13	512.46	1024.6	538.62	579.86	1118.48	72.83	411.54	648.94
7	Imphal East	588.54	512.47	1101.02	525.33	493.8	1019.12	554.28	502.35	1056.63	308.27	1763.57	3543.37
9	Chandel	457.7	326.85	784.55	441.23	308.52	749.75	449.54	317.77	767.31	295.19	247.02	816.67
Manipur State		526.39	535.47	1061.86	505.48	471.07	976.55	515.45	501.78	1017.23	24.37	144.85	224.50

State: MANIPUR		Sector: RURAL [SCHEDULE 1.0 TYPE-I]							
Table-1.6(R): District wise estimate of RSE of Total MPCE for central, state and pooled sample									
District		URP				MRP			
Code	Name	Central	State	Poolby_mr	Poolby_iv	Central	State	Poolby_mr	Poolby_iv
1	Senapati	6.43	6.6	4.68	4.61	4.79	3.17	2.88	2.64
2	Tamenglong	0.91	0.46	0.44	0.43	1.74	1.31	1.06	1.07
3	Churachandpur	11.52	2.32	6.13	2.27	7.1	3.47	3.99	3.12
4	Bishnupur	0.58	3.55	1.90	0.57	1.43	5.02	2.73	1.38
5	Thoubal	2.5	4.35	2.58	2.17	0.09	3.12	1.66	0.09
6	Imphal West	2.26	6.72	3.33	2.14	2.62	5.57	2.95	2.37
7	Imphal East	1.03	0.77	0.65	0.62	3.2	0.53	1.70	0.52
8	Ukhrul	9.53	0.16	4.51	0.16	7.3	0.46	3.46	0.46
9	Chandel	5.38	7.6	4.52	4.41	5.88	7.93	4.83	4.74
Manipur State		1.97	1.36	1.19	1.12	1.56	1.2	0.98	0.95

State: MANIPUR		Sector: URBAN [SCHEDULE 1.0 TYPE-I]							
Table-1.6(U): District wise estimate of RSE of Total MPCE for central, state and pooled sample									
District		URP				MRP			
Code	Name	Central	State	Poolby_mr	Poolby_iv	Central	State	Poolby_mr	Poolby_iv
4	Bishnupur	0.57	0.62	0.42	0.42	1.51	1.3	0.99	0.99
5	Thoubal	1.55	0.12	0.74	0.12	1.72	1.52	1.14	1.14
6	Imphal West	4.56	0.4	2.54	0.40	4.17	0.54	2.28	0.54
7	Imphal East	7.65	5.22	4.65	4.31	9.71	5.14	5.63	4.55
9	Chandel	10.28	2.31	5.35	2.25	7.18	1.29	3.72	1.27
Manipur State		3.04	0.43	1.62	0.43	2.76	0.64	1.47	0.62

State: MANIPUR Sector: RURAL [SCHEDULE 1.0 TYPE-II] Pooling method: MATCHING RATIO

Table-2.1a(R): Estimated no of households(00)and their RSEs for central, state and pooled sample for each decile class of MPCE

MPCE Class (Rs.)	Estimated households (00)			RSE of Estimated households			Sample households		
	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	543	555	769	13.92	12.86	6.76	184	424	607
2	609	528	831	12.75	6.04	5.05	231	438	695
3	649	581	773	12	4.77	5.35	241	579	806
4	615	608	796	7.24	7.44	3.99	292	515	805
5	652	679	845	11.56	9.73	5.93	428	796	1215

State: MANIPUR Sector: URBAN [SCHEDULE 1.0 TYPE-II] Pooling method: MATCHING RATIO

Table-2.1a(U): Estimated no of households(00)and their RSEs for central, state and pooled sample for each decile class of MPCE

MPCE Class (Rs.)	Estimated households (00)			RSE of Estimated households			Sample households		
	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	200	227	276	8.36	2.28	3.17	205	463	662
2	221	234	309	6.74	1.91	2.52	212	349	578
3	231	245	322	6.18	3.36	2.56	210	407	619
4	231	251	309	3.2	4.57	2.21	240	481	711
5	278	263	372	7.61	4.03	3.18	315	663	975

State: MANIPUR Sector: RURAL [SCHEDULE 1.0 TYPE-II] Pooling method: MATCHING RATIO

Table-2.1b(R): Estimated no of persons(00), sex ratio and their RSEs for central, state and pooled sample for each decile class of MPCE

MPCE Class (Rs.)	Est persons(00)			RSE of Est persons			Sex ratio			RSE of Sex ratio		
	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	3180	3048	4353	12.91	13.51	6.68	875	961	912	19.52	20.01	14.10
2	3113	2981	4351	12.15	6.62	4.90	916	913	938	19.67	17.71	12.90
3	3201	3056	4115	12.6	6.03	5.39	888	960	908	19.93	17.83	13.56
4	3168	3009	3924	8.03	8.03	4.47	1026	956	976	18.13	18.92	13.29
5	3107	3004	3834	12	11.88	6.73	878	979	940	18.48	20.05	13.55

State: MANIPUR Sector: URBAN [SCHEDULE 1.0 TYPE-II] Pooling method: MATCHING RATIO

Table-2.1b(U): Estimated no of persons(00), sex ratio and their RSEs for central, state and pooled sample for each decile class of MPCE

MPCE Class (Rs.)	Est persons(00)			RSE of Est persons			Sex ratio			RSE of Sex ratio		
	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	1140	1245	1535	9.37	1.09	3.51	1058	994	1025	31.15	31.36	22.13
2	1128	1246	1601	6.53	3.4	2.65	1062	934	989	32.94	31.69	23.17
3	1142	1244	1620	7.78	4.37	3.21	982	935	950	33.9	32.09	23.59
4	1141	1249	1548	3.68	5.3	2.53	935	946	936	31.03	31.28	22.14
5	1135	1248	1641	6.75	3.57	2.70	875	884	897	28.63	28.22	19.71

State: MANIPUR [SCHEDULE 1.0 TYPE-II]												
Table-2.6a: Estimates of MPCE(MMRP) for central, state and pooled sample												
Sector	Central Sample			State Sample			Pooled_matching_ratio			Pooled_inverse_var		
	Food	Non-Food	Total	Food	Non-Food	Total	Food	Non-Food	Total	Food	Non-Food	Total
Rural	617.63	409.61	1027.24	618.29	487.6	1105.89	639.6	422.21	1061.81	58.55	45.70	176.03
Urban	662.4	435.33	1097.73	587.78	430.29	1018.07	602.34	457.63	1059.97	42.41	37.17	96.99

State: MANIPUR [SCHEDULE 1.0 TYPE-II]								
Table-2.6b: Estimates of RSE of Total MPCE (MMRP) for central, state and pooled sample								
Item Description	RURAL				URBAN			
	Central	State	Poolby_mr	Poolby_iv	Central	State	Poolby_mr	Poolby_iv
Food Group	1.54	1.81	1.20	1.17	2.05	0.51	1.08	0.49
Non-Food Group	2.23	2.29	1.60	1.60	2.34	1	1.33	0.92
Total Expenditure	1.7	1.82	1.25	1.24	1.73	0.46	0.93	0.44

Chapter-IV

Results Schedule 10

State: MANIPUR		Sector: RURAL [SCHEDULE 10]			Pooling method: MATCHING RATIO					
Table-21.1(R): District wise estimated no persons(00) for central, state and pooled sample										
District		Male (00)			Female(00)			Persons(00)		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	Senapati	1066	612	1118	1031	526	1038	2097	1138	2157
2	Tamenglong	513	497	673	507	449	637	1020	946	1311
3	Churachandpur	964	1077	1359	873	1015	1257	1837	2092	2616
4	Bishnupur	677	601	852	592	600	794	1269	1200	1646
5	Thoubal	1073	1087	1440	987	1044	1354	2060	2131	2794
6	Imphal West	1004	901	1269	897	847	1163	1901	1748	2432
7	Imphal East	1222	1328	1700	1268	1290	1705	2490	2618	3405
8	Ukhrul	742	781	1016	696	729	950	1438	1510	1966
9	Chandel	555	478	688	457	497	636	1012	975	1324
Manipur State		7816	7361	10115	7309	6997	9535	15124	14358	19650

State: MANIPUR		Sector: URBAN [SCHEDULE 10]			Pooling method: MATCHING RATIO					
Table-21.1(U): District wise estimated no persons(00) for central, state and pooled sample										
District		Male (00)			Female(00)			Persons(00)		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
4	Bishnupur	396	415	540	346	388	489	742	803	1030
5	Thoubal	698	851	1032	624	801	950	1322	1651	1982
6	Imphal West	1431	1503	1956	1362	1412	1849	2793	2914	3805
7	Imphal East	136	169	203	147	173	213	282	342	416
9	Chandel	81	83	109	70	69	93	151	152	202
Manipur State		2742	3020	3841	2549	2842	3594	5291	5862	7435

State: MANIPUR Sector: RURAL [SCHEDULE 10] Pooling method: MATCHING RATIO										
Table-21.2(R): District wise WPR per 1000(PS+SS) for central, state and pooled sample										
District		Male			Female			Persons		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	Senapati	535	94	386	243	156	211	415	121	313
2	Tamenglong	258	5	121	209	0	106	235	3	114
3	Churachandpur	499	365	426	495	204	356	497	296	393
4	Bishnupur	178	93	136	153	73	115	166	83	126
5	Thoubal	300	90	177	109	96	102	208	93	143
6	Imphal West	104	156	130	194	96	138	137	129	134
7	Imphal East	177	288	246	41	176	112	98	235	176
8	Ukhrul	140	107	121	161	85	123	151	98	122
9	Chandel	352	269	313	192	128	152	287	191	234
Manipur State		310	177	242	203	123	163	260	153	205

State: MANIPUR Sector: URBAN [SCHEDULE 10] Pooling method: MATCHING RATIO										
Table-21.2(U): District wise WPR per 1000(PS+SS) for central, state and pooled sample										
District		Male			Female			Persons		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
4	Bishnupur	99	108	103	62	84	75	85	97	92
5	Thoubal	129	89	102	205	54	99	161	73	101
6	Imphal West	116	43	75	116	67	90	116	54	82
7	Imphal East	131	241	201	364	159	252	263	202	227
9	Chandel	318	315	316	0	0	0	218	214	217
Manipur State		126	84	102	139	70	99	132	78	101

State: MANIPUR Sector: RURAL [SCHEDULE 10] Pooling method: MATCHING RATIO										
Table-21.3(R): District wise LFPR per 1000 for central, state and pooled sample										
District		PS+SS			CWS			CDS		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	Senapati	425	132	323	425	132	323	425	132	323
2	Tamenglong	235	3	114	219	3	107	207	3	101
3	Churachandpur	540	324	429	528	318	419	528	318	419
4	Bishnupur	172	108	141	168	108	139	167	108	139
5	Thoubal	208	93	143	208	93	143	196	93	138
6	Imphal West	214	169	191	202	167	184	188	167	177
7	Imphal East	180	241	215	168	234	206	151	234	198
8	Ukhrul	255	122	182	255	122	182	255	122	182
9	Chandel	287	193	236	287	193	236	287	193	236
Manipur State		297	168	231	290	165	226	283	165	223

State: MANIPUR Sector: URBAN [SCHEDULE 10] Pooling method: MATCHING RATIO										
Table-21.3(U): District wise LFPR per 1000 for central, state and pooled sample										
District		PS+SS			CWS			CDS		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
4	Bishnupur	129	141	136	129	131	130	129	131	130
5	Thoubal	192	81	116	192	81	116	173	81	110
6	Imphal West	166	95	127	166	92	125	162	92	124
7	Imphal East	338	202	258	338	202	258	279	202	234
9	Chandel	218	214	217	218	214	217	218	214	217
Manipur State		177	107	136	177	104	134	168	104	131

State: MANIPUR		Sector: RURAL [SCHEDULE 10]			Pooling method: MATCHING RATIO					
Table-21.4(R): District wise RSE of LFPR for central, state and pooled sample										
District		PS+SS			CWS			CDS		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
1	Senapati	13.73	2.42	7.21	13.73	2.5	7.22	13.73	2.41	7.21
2	Tamenglong	9.5	2.03	5.45	7.43	2.03	4.28	7.92	2.03	4.34
3	Churachandpur	3.56	2.73	2.34	4.9	2.58	2.93	3.84	2.58	2.41
4	Bishnupur	15.25	0.08	7.63	15.01	0.08	7.45	15.11	0.08	7.45
5	Thoubal	1.62	2.19	1.34	2.51	2.19	1.68	2.48	2.19	1.66
6	Imphal West	1.26	0.16	0.68	2.51	0.05	1.29	2.4	0.05	1.20
7	Imphal East	1.94	0.16	1.01	3.21	0.01	1.67	2.18	0.01	1.11
8	Ukhrul	6.3	6.52	4.54	6.32	6.02	4.38	5.61	6.02	4.11
9	Chandel	5.41	6.87	4.33	5.38	6.87	4.32	5.38	6.87	4.32
Manipur State		2.64	1.18	1.51	2.77	1.14	1.55	2.73	1.14	1.52

State: MANIPUR		Sector: URBAN [SCHEDULE 10]			Pooling method: MATCHING RATIO					
Table-21.4(U): District wise RSE of LFPR for central, state and pooled sample										
District		PS+SS			CWS			CDS		
Code	Name	Central	State	Pooled	Central	State	Pooled	Central	State	Pooled
4	Bishnupur	2.36	7.13	3.65	2.59	6.45	3.39	2.59	6.45	3.39
5	Thoubal	3.03	9.36	4.73	2.92	8.99	4.53	0.89	8.99	4.37
6	Imphal West	2.19	1.17	1.29	1.82	1.01	1.08	1.87	1.01	1.09
7	Imphal East	16.54	1.04	8.37	14.71	1.04	7.35	12.66	1.04	6.22
9	Chandel	4.99	11.74	6.68	4.99	11.74	6.68	4.99	11.74	6.68
Manipur State		1.91	2.68	1.63	1.7	2.55	1.51	1.39	2.55	1.43

ABBREVIATION

NSS	-	National Sample Survey
MoSPI	-	Ministry of Statistics and Programme Implementation
NSC	-	National Statistical Commission
NSSO	-	National Sample Survey Office
MSE	-	Mean Square Error
MPCE	-	Monthly Per capita Consumer Expenditure
URP	-	Uniform Reference Period
MRP	-	Mixed Reference Period
MMRP	-	Modified Mixed Reference Period
FSU	-	First Stage Unit
MR	-	Matching Ratio
IV	-	Inverse of Variance
HH	-	Household
WPR	-	Work Participation Rate
LFPR	-	Labour Force Participation Rate
EST	-	Estimated
VAR	-	Variance
RSE	-	Relative Standard Error
PS	-	Principal Activity Status
SS	-	Subsidiary Economic Activity Status
CWS	-	Current Weekly Activity Status
CDS	-	Current Daily Activity Status