Note on sample design and estimation procedure of NSS 58th round

1. **Introduction**

1.1 The National Sample Survey Organisation (NSSO), engaged in collection of socio-economic data employing scientific sampling methods, started its fifty-eighth round from 1st July 2002. The survey continued till December 2002. The primary objective of this survey was to gather information on social indicators like disability and housing condition. Besides, annual round of data on household consumer expenditure and employment-unemployment were also collected.

2. **Subject coverage**

2.1 The survey covered both mental and physical disabilities. Among the physical disabilities speech, hearing, visual and locomotor disabilities were considered. The other major topics covered were housing conditions, village facilities, slum particulars etc.

In addition, the annual consumer expenditure enquiry covering some key characteristics of employment-unemployment were also carried out on a sample of four households in each sample FSU.

2.2 **Geographical coverage**: The survey covered the whole of the Indian Union *except* (i) Leh and Kargil districts of Jammu & Kashmir, (ii) interior villages of Nagaland situated beyond five kilometres of the bus route and (iii) villages in Andaman and Nicobar Islands which remain inaccessible throughout the year.

2.3 **Period of survey and work programme**: The survey period of this round was divided into two sub-rounds of three months duration each as follows:

Sub-round 1:	July-September 2002
Sub-round 2:	October-December 2002

As far as possible, equal number of sample FSUs was allotted for survey in each of the two sub-rounds to ensure uniform spread of sample FSUs over the entire round. Attempt was made to cover each such FSU during the sub-round to which was allotted. *Because of the arduous field conditions, this sub-round restriction was relaxed in Andaman and Nicobar Islands, Lakshadweep, rural areas of Arunachal Pradesh and Nagaland.*

2.4 **Schedules of enquiry:** The following are lists the schedules of enquiry for this round:

schedule 0.0:	list of households
schedule 3.1:	village facilities
schedule 0.21:	particulars of slum
schedule 26:	survey of disabled persons
schedule 1.2:	housing condition
schedule 1.0:	household consumer expenditure

2.5 **Participation of States**: In this round all the States and Union Territories except Andaman & Nicobar Islands, Dadra & Nagar Haveli and Lakshadweep participated at least on an equal matching basis. The following gives the prevalent matching pattern of the participating States/UTs:

Nagaland (U):	triple
J & K , Manipur, Delhi:	double
Goa, Maharashtra (U):	one and half
remaining States and UTs:	equal

3. **Sample Design**

3.1 **Outline of Sample Design:** A stratified multi-stage design was adopted for the conduct of survey of NSS 58th round. The first-stage units were census villages (panchayat wards for Kerala) in the rural sector and the NSSO Urban Frame Survey (UFS) blocks in the urban sector. The ultimate stage units were households in both the sectors.

3.2 **Sampling Frame for First-Stage Units:** *For the rural sector*, the list of Census 1991 villages (panchayat wards for Kerala) and Census 1981 villages for J & K constituted the sampling frame. *For the urban sector*, the list of latest available Urban Frame Survey (UFS) blocks was considered as the sampling frame.

3.3 **Stratification**

3.3.1 **Rural sector:** Two **special strata** were formed as given below at the State/ UT level on the basis of Population Census 1991 viz.

Stratum 1: all FSUs with population between 0 to 50, and
Stratum 2: FSUs with population more than 15,000

The special stratum 1 was formed if at least 50 such FSU's were found in a State/UT. Similarly, special stratum 2 was formed if at least 4 such FSUs were found in a State/UT. Otherwise, such FSUs were merged with the general strata.

From the remaining FSUs (not covered under stratum 1 &2) **general strata** (hereafter, stratum will refer to general stratum unless otherwise mentioned) was formed and numbered 3, 4, 5 …. etc. (even if no special strata have been formed). Each district of a State/UT was normally treated as a separate stratum. However, if the provisional population of the district was greater than or equal to 2.5 million *as per Census 2001*, the district was divided into two or more strata with more or less equal population as per population census 1991 by grouping contiguous tehsils. However, in Gujarat, some districts were not wholly included in an NSS region. In such cases, the part of the district falling in an NSS region constituted a separate stratum.

3.3.2 **Urban sector:** In the urban sector, stratum was formed within each NSS region on the basis of size class of towns as per *Census 1991 town population except for towns specified in Table 4. The stratum number and their composition (within each region) are given below:*

stratum 1:	all towns with population (P) < 0.1 million
stratum 2:	all towns with 0.1≤ P < 0.5 million
stratum 3:	all towns with 0.5≤ P < 1 million
stratum 4,5,6, …	each town with P≥ 1 million

The stratum numbers was retained as above even if, in some regions, some of the stratum is not formed.

3.4 **Sub-stratification:** *There was no sub-stratification in the rural sector.* However, to cover more number of households living in slums, in urban sector each stratum was divided into 2 sub-strata as follows:

sub-stratum 1: all UFS blocks having area type 'slum area'
sub-stratum 2: remaining UFS blocks

If there was one UFS block with area type 'slum area' within a stratum, sub-stratum 1 was not formed; it was merged with sub-stratum 2.

3.5 **Total sample size (FSUs):** A total number of 8338 and 9076 first-stage units were selected for survey in the Central and State samples respectively. The sample size by State and Sector is given in the Annexure

3.6 **Allocation of total sample to States and UTs:** The total sample FSUs was allocated to the States and UTs in proportion to provisional population as per Census 2001 subject to the availability of investigators ensuring more or less uniform work-load.

3.7 **Allocation of State/ UT level sample to Rural and Urban sectors:** State/UT level sample was allocated between two sectors in proportion to provisional population *as per Census 2001* with double weightage to urban sector.

3.8 **Allocation of Rural /Urban sector level sample size to strata / sub-strata:** Both rural and urban sector samples allotted to a State/UT were allocated to different strata in proportion to population of the stratum. All the stratum-level allocations were adjusted to multiple of 2. Stratum-level sample size in the urban sector was further allocated to 2 sub-strata in proportion to the number of UFS blocks in them with double weightage to sub-stratum 1 subject to a minimum sample size of 2 or 4 to sub-stratum 1 according as stratum-level allocation is 4 or greater than 4. Sub-stratum level allocations in the urban sector were made even.

3.9 **Selection of FSUs:** FSUs were selected in the form of two independent sub-samples in both the sectors. For special stratum 2 and all the general strata of rural sector, FSUs were selected by probability proportional to size with replacement (PPSWR) where size was the 1991 census population. For urban sector and special stratum 1 of rural sector, FSUs were selected by simple random sampling without replacement (SRSWOR).

4. **Selection of hamlet-groups/sub-blocks / households**

4.1 F**ormation of hamlet-group/sub-block:** Large villages/ blocks having approximate *present population* 1200 or more were divided into a suitable number of hamlet-groups/sub-blocks as given below:

approximate present population	no. of hamlet-groups/ sub-blocks formed
less than 1200	1 (no hamlet-group/sub-block formation)
1200 to 1799	3
1800 to 2399	4
2400 to 2999	5
3000 to 3599	6
....and so on	

For rural areas of Himachal Pradesh, Sikkim and Poonch, Rajouri, Udhampur and Doda districts of Jammu and Kashmir and Idukki district of Kerala where habitation pattern causes difficulty in listing due to topography of the area, hg formation criterion was relaxed for which number of hamlet groups formed as per population criterion is given below:

approximate present population	no. of hamlet-groups/ sub-blocks formed
less than 600	1 (no hamlet-group/sub-block formation)
600 to 899	3
900 to 1199	4
1200 to 1499	5
....and so on	

Hamlet-groups / sub-blocks were formed by more or less equalising population. *For large urban blocks*, the sub-block (sb) having slum dwellers, if any, was selected with probability 1 and was termed as *segment 1*. However, if there were more than one sb having slum dwellers, the sb having maximum number of slum dwellers was selected as *segment 1*. After selection of sb for segment 1, one more sb was selected by simple random sampling (SRS) from the remaining sb's of the block and was termed as *segment 2*. *For large blocks (having no slum areas)* two sub-blocks were selected by simple random sampling without replacement (SRSWOR) and *were combined* to form *segment 2*. For urban blocks without sub-block formation, segment number was 1 or 2 depending on whether the block was having a slum or not. For *large villages* two hamlet-groups were selected by SRSWOR and *were combined* to form *segment 2*. For villages without hamlet-group formation, segment number was also 2. The segments were considered *separately* for listing and selection of the ultimate-stage units.

4.2 **Formation of Second Stage Strata (SSS) and selection of households for schedules 1.2 and 1.0:** In each selected village/block/segment, three and two second stage strata (SSS) were formed for schedule 1.2 and schedule 1.0 respectively on the basis of structure type in rural areas and household MPCE in urban areas. The number of households selected for each FSU is given below:

Schedule 1.2

		without segment formation	**with segment formation (for each segment)**
rural			
SSS 1:	households having pucca dwelling structure	4	-
SSS 2:	households having semi-pucca dwelling structure	4	-
SSS 3:	other households	4	-
urban			
SSS 1:	households having MPCE of top 10% of urban population	4	2
SSS 2:	households having MPCE of middle 60% of urban population	4	2
SSS 3:	households having MPCE of bottom 30% of urban population	4	2

The sample households were selected by SRSWOR from each SSS.

Schedule 1.0

		without segment formation	with segment formation (for each segment)
rural			
SSS 1:	households having pucca dwelling structure	2	-
SSS 2:	other households	2	-
urban			
SSS 1:	households having MPCE of top 10% of urban population	2	1
SSS 2:	other households	2	1

The sample households were selected by SRSWOR from each SSS.

4.3 **Formation of Second Stage Strata (SSS) and selection of households *for schedule 26***: In each selected village/block/segment, three second stage strata (SSS) were formed on the basis of disability type. The number of households selected is given below:

Schedule 26

		Without segment formation	with segment formation (for each segment)
SSS 1:	households having at least one person with mental disability	4	2
SSS 2:	households having at least one person with speech/hearing/ visual disability out of remaining households	4	2
SSS 3:	households having at least one person with locomotor disability out of remaining households	4	2

The sample households were selected by SRSWOR from each SSS.

For a household having a person with more than one disability (i.e. multiple disability), SSS was assigned by priority criterion e.g. a household having a person with mental disability as well as locomotor disability was classified under SSS 1 and a household having one person with speech disability and another person with locomotor disability was classified under SSS 2.

4. **Estimation Procedure**

4.1 **Notations:**

s = subscript for s-th stratum

t = subscript for t-th sub-stratum of an urban stratum (t =1, 2)

m = subscript for sub-sample (m =1, 2)

i = subscript for i-th FSU [village (panchayat ward) / block]

u = subscript for a segment (u = 1, 2)

j = subscript for j-th second stage stratum of an FSU

k = subscript for k-th sample household under a particular second stage stratum within an FSU D = total number of hg's / sb's formed in the sample village (panchayat ward) / block

D* = 1 if D = 1

= D / 2 for rural FSUs with D > 1

= (D – 1) for urban FSUs with D > 1 and with segment 1

= D / 2 for urban FSUs with D > 1 and without segment 1

N = total number of FSUs in an urban stratum / sub-stratum or rural stratum 1

Z = total size of a general stratum or special stratum 2 of rural sector (= sum of sizes for all the FSUs of a stratum)

z = size of sample village used for selection.

n = number of sample village / block surveyed including zero cases but excluding casualty for a particular sub-sample and stratum / sub-stratum.

H = total number of households listed in a second-stage stratum of a segment of a sample FSU

h = number of households surveyed in a second-stage stratum of a segment of a sample FSU

x, y = observed value of characteristics *x*, *y* under estimation

$\hat{X}$, $\hat{Y}$ = estimate of population total X, Y for the characteristics *x*, *y*

Under the above symbols,

y_{smiujk} = observed value of the characteristic y for the k-th household in the j-th second stage stratum of the u-th segment (u = 1, 2) of the i-th FSU belonging to the m-th sub-sample for the s-th rural stratum;

$y_{stmiujk}$ = observed value of the characteristic y for the k-th household in the j-th second stage stratum of the u-th segment (u = 1, 2) of the i-th FSU belonging to the m-th sub-sample for the the t-th sub-stratum of s-th urban stratum

However, for ease of understanding, a few symbols have been suppressed in following paragraphs where they are obvious.

4.2 **Formulae for estimation of aggregates for a particular sub-sample and stratum / sub-stratum in Rural / Urban sector:**

A) Schedule 0.0 / 3.1 / 0.21:

Rural:

(a) Estimation formula for stratum 1 (i.e. special stratum at State/UT level):

i) For estimating the number of households possessing a characteristic:

$$\hat{Y} = \frac{N}{n}\sum_{i=1}^{n}\left[D_i^* \times y_{i2} \right]$$

where y_{i2} is the total of observed values for the characteristic *y* belonging to segment 2 of the i-th FSU.

ii) For estimating the number of villages possessing a characteristic:

$$\hat{Y} = \frac{N}{n}\sum_{i=1}^{n} y_i$$

where y_i is taken as 1 for sample villages possessing the characteristic and 0 otherwise.

(b) Estimation formula for other strata:

i) For estimating the number of households possessing a characteristic:

$$\hat{Y} = \frac{Z}{n}\sum_{i=1}^{n}\frac{1}{z_i}\left[D_i^* \times y_{i2} \right]$$

ii) For estimating the number of villages possessing a characteristic:

$$\hat{Y} = \frac{Z}{n}\sum_{i=1}^{n}\frac{1}{z_i} y_i$$

Urban:

(a) Estimation formula for a sub-stratum of an urban stratum:

$$\hat{Y} = \frac{N}{n}\sum_{i=1}^{n}\left[y_{i1} + D_i^* \times y_{i2} \right] \ ,$$

where y_{i1} and y_{i2} are the totals of observed values for the characteristic *y* belonging to segments 1 and 2 respectively, of the i-th FSU in the t[th] sub-stratum and s[th] stratum .

(b) For the s[th] stratum:

$\hat{Y}_s = \sum_{t=1}^{2} \hat{Y}_{st}$, where $\hat{Y}_{st}$ denotes the estimate of Y for the t-th sub-stratum of the s-th stratum.

B) **Schedule 1.0:**

Rural:

(a) Estimation formula for stratum 1:

(i) For households selected in j-th second stage stratum:

$$\hat{Y}_j = \frac{N}{n_j} \sum_{i=1}^{n_j} \left[D_i^* \times \frac{H_{i2j}}{h_{i2j}} \sum_{k=1}^{h_{i2j}} y_{i2jk} \right] , (j = 1, 2)$$

(ii) For all selected households:

$$\hat{Y} = \sum_{j=1}^{2} \hat{Y}_j$$

(b) Estimation formula for general strata:

(i) For households selected in j-th second stage stratum:

$$\hat{Y}_j = \frac{Z}{n_j} \sum_{i=1}^{n_j} \frac{1}{z_i} \left[D_i^* \times \frac{H_{i2j}}{h_{i2j}} \sum_{k=1}^{h_{i2j}} y_{i2jk} \right] , (j = 1, 2)$$

(ii) For all selected households:

$$\hat{Y} = \sum_{j=1}^{2} \hat{Y}_j$$

Urban:

(a) Estimation formula for a sub-stratum of urban stratum

(i) For households selected in j-th second stage stratum:

$$\hat{Y}_j = \frac{N}{n_j} \sum_{i=1}^{n_j} \left[\frac{H_{i1j}}{h_{i1j}} \sum_{k=1}^{h_{i1j}} y_{i1jk} + D_i^* \times \frac{H_{i2j}}{h_{i2j}} \sum_{k=1}^{h_{i2j}} y_{i2jk} \right] , (j = 1, 2)$$

(ii) For all selected households:

$$\hat{Y} = \sum_{j=1}^{2} \hat{Y}_j$$

(b) For the sth stratum:

$$\hat{Y}_s = \sum_{t=1}^{2} \hat{Y}_{st}$$

C) **Schedule 26 / 1.2:**

Rural:

(a) Estimation formula for stratum 1:

(i) For households selected in j-th second stage stratum:

$$\hat{Y}_j = \frac{N}{n_j} \sum_{i=1}^{n_j} \left[D_i^* \times \frac{H_{i2j}}{h_{i2j}} \sum_{k=1}^{h_{i2j}} y_{i2jk} \right] \text{, (j = 1, 2 or 3)}$$

(ii) For all selected households:

$$\hat{Y} = \sum_{j=1}^{3} \hat{Y}_j$$

(b) Estimation formulae for general strata:

(i) For households selected in j-th second stage stratum:

$$\hat{Y}_j = \frac{Z}{n_j} \sum_{i=1}^{n_j} \frac{1}{z_i} \left[D_i^* \times \frac{H_{i2j}}{h_{i2j}} \sum_{k=1}^{h_{i2j}} y_{i2jk} \right] \text{, (j = 1, 2 or 3)}$$

(ii) For all selected households:

$$\hat{Y} = \sum_{j=1}^{3} \hat{Y}_j$$

Urban:

(a) Estimation formula for a sub-stratum of urban stratum

(i) For households selected in j-th second stage stratum:

$$\hat{Y}_j = \frac{N}{n_j} \sum_{i=1}^{n_j} \left[\frac{H_{i1j}}{h_{i1j}} \sum_{k=1}^{h_{i1j}} y_{i1jk} + D_i^* \times \frac{H_{i2j}}{h_{i2j}} \sum_{k=1}^{h_{i2j}} y_{i2jk} \right] \text{, (j = 1, 2 or 3)}$$

(ii) For all selected households:

$$\hat{Y} = \sum_{j=1}^{3} \hat{Y}_j$$

(b) For the s[th] stratum:

$$\hat{Y}_s = \sum_{t=1}^{2} \hat{Y}_{st}$$

4.3 **Overall estimate for aggregates**:

Overall estimate for aggregates for a stratum ($\hat{Y}_s$) / sub-stratum ($\hat{Y}_{st}$) based on two sub-samples is obtained as:

(i) $\hat{Y}_s = \frac{1}{2}\sum_{m=1}^{2} \hat{Y}_{sm}$ for rural stratum,

(ii) $\hat{Y}_{st} = \frac{1}{2}\sum_{m=1}^{2} \hat{Y}_{stm}$ for urban sub-stratum and

(iii) $\hat{Y}_s = \sum_{t=1}^{2} \hat{Y}_{st}$ for urban stratum

4.4 **Overall estimate of aggregates at State/UT/all-India level**:

The overall estimate $\hat{Y}$ at the State/ UT/ all-India level is obtained by summing the stratum estimates $\hat{Y}_s$ over all strata belonging to the State/ UT/ all-India.

4.5 **Estimates of ratios**:

Let $\hat{Y}$ and $\hat{X}$ be the overall estimate of the aggregates Y and X for two characteristics *y* and *x* respectively at the State/ UT/ all-India level.

Then the combined ratio estimate ($\hat{R}$) of the ratio ($R = \frac{Y}{X}$) will be obtained as

$$\hat{R} = \frac{\hat{Y}}{\hat{X}}$$

4.6 **Estimates of error**:

The estimated variances of the above estimates will be as follows:

A) For aggregate $\hat{Y}$:

$$\hat{Var}(\hat{Y}) = \sum_{s} \hat{Var}(\hat{Y}_s) = \sum_{s}\sum_{j} \hat{Var}(\hat{Y}_{sj})$$

where $\hat{Var}(\hat{Y}_{sj})$ are as given below.

a) For strata with PPSWR selection at first stage (for all rural strata except stratum 1):

$$\hat{Var}_{ppswr}(\hat{Y}_{sj}) = \sum_{s} \frac{1}{n_{sj}(n_{sj}-1)} \left[\sum_{i=1}^{n_{sj}} \frac{Z_s{}^2 \hat{Y}_{sij}{}^2}{z_{si}{}^2} - n_{sj} \hat{Y}_{sj}{}^2 \right],$$

where $$\hat{Y}_{sij} = \left[D^*_{si} \frac{H_{si2j}}{h_{si2j}} \sum_{k=1}^{h_{si2j}} y_{si2jk} \right]$$

b) For strata with SRSWOR selection at first stage (for rural stratum 1 and all urban strata):

$$\hat{Var}_{srswor}(\hat{Y}_{sj}) = \frac{N_s{}^2}{n_{sj}} (1 - \frac{n_{sj}}{N_s}) s^2{}_{bsj} + \frac{N_s}{n_{sj}} \left[\sum_{i=1}^{n_{sj}} (v_{wsi1j} + v_{wsi2j}) \right]$$

where

$$s^2{}_{bsj} = \frac{1}{n_{sj}-1} \left[\sum_{i=1}^{n_{sj}} \hat{Y}_{sij}{}^2 - \frac{(\sum_{i=1}^{n_{sj}} \hat{Y}_{sij})^2}{n_{sj}} \right],$$

$$v_{wsi1j} = \frac{H^2{}_{si1j}}{h_{si1j}} (1 - \frac{h_{si1j}}{H_{si1j}}) \frac{1}{h_{si1j}-1} \left[\sum_{k=1}^{h_{si1j}} y^2{}_{si1jk} - \frac{(\sum_{k=1}^{h_{si1j}} y_{si1jk})^2}{h_{si1j}} \right],$$

$$v_{wsi2j} = \frac{(D_{si}{}^* H_{si2j})^2}{h_{si2j}} (1 - \frac{h_{si2j}}{D_{si}{}^* H_{si2j}}) \frac{1}{h_{si2j}-1} \left[\sum_{k=1}^{h_{si2j}} y^2{}_{si2jk} - \frac{(\sum_{k=1}^{h_{si2j}} y_{si2jk})^2}{h_{si2j}} \right],$$

$$\hat{Y}_{sij} = \left[\frac{H_{si1j}}{h_{si1j}} \sum_{k=1}^{h_{si1j}} y_{si1jk} + D^*_{si} \frac{H_{si2j}}{h_{si2j}} \sum_{k=1}^{h_{si2j}} y_{si2jk} \right],$$

c) For urban stratum with sub-stratum formation:

$$\hat{Var}(\hat{Y}_j) = \sum_{t=1}^{2} \hat{Var}_{srswor}(\hat{Y}_{stj})$$

where $\hat{Var}_{srswor}(\hat{Y}_{stj})$ can be obtained from the formula given in (b) above with appropriate choice of N, n, H, h, y etc. relating to the sub-stratum 't' only of stratum 's'.

B) For ratio $\hat{R}$:

$$\hat{MSE}(\hat{R}) = \frac{1}{(\hat{X})^2}\left[\sum_{s} \hat{MSE}_s(\hat{R}) + \sum_{s'} \hat{MSE}_{s'}(\hat{R})\right]$$

where s, s' indicate respectively the strata with PPSWR and SRSWOR selection at first stage.

a) For strata with PPSWR selection at first stage (for all rural strata except stratum 1):

$$\hat{MSE}_s(\hat{R}) = \frac{1}{n_s(n_s-1)} \sum_{i=1}^{n_s}\left[\frac{Z_s}{z_{si}}(\hat{Y}_{si} - \hat{R}\hat{X}_{si}) - \frac{1}{n_s}\sum_{i=1}^{n_s}\frac{Z_s}{z_{si}}(\hat{Y}_{si} - \hat{R}\hat{X}_{si})\right]^2$$

where

$$\hat{Y}_{si} = \sum_j \hat{Y}_{sij} \ , \quad \hat{X}_{si} = \sum_j \hat{X}_{sij} \ ,$$

$$\hat{Y}_{sij} = \left[D^*_{si}\frac{H_{si2j}}{h_{si2j}}\sum_{k=1}^{h_{si2j}} y_{si2jk}\right], \quad \hat{X}_{sij} = \left[D^*_{si}\frac{H_{si2j}}{h_{si2j}}\sum_{k=1}^{h_{si2j}} x_{si2jk}\right]$$

b) For strata with SRSWOR selection at first stage (for rural stratum 1 and all urban strata):

$$\hat{MSE}_{s'}(\hat{R}) = \frac{{N_{s'}}^2}{n_{s'}}\left(1-\frac{n_{s'}}{N_{s'}}\right)\frac{1}{n_{s'}-1}\sum_{i=1}^{n_{s'}}\left[(\hat{Y}_{s'i} - \hat{R}\hat{X}_{s'i}) - \frac{\sum_{i=1}^{n_{s'}}(\hat{Y}_{s'i} - \hat{R}\hat{X}_{s'i})}{n_{s'}}\right]^2 + \frac{N_{s'}}{n_{s'}}\sum_{i=1}^{n_{s'}}\left[v_{ws'i1} + v_{ws'i2}\right]$$

where

$$\hat{Y}_{s'i} = \sum_j \hat{Y}_{s'ij} \ , \quad \hat{X}_{s'i} = \sum_j \hat{X}_{s'ij} \ ,$$

$$\hat{Y}_{s'ij} = \left[\frac{H_{s'i1j}}{h_{s'i1j}} \sum_{k=1}^{h_{s'i1j}} y_{s'i1jk} + D^*_{s'i} \frac{H_{s'i2j}}{h_{s'i2j}} \sum_{k=1}^{h_{s'i2j}} y_{s'i2jk} \right],$$

$$\hat{X}_{s'ij} = \left[\frac{H_{s'i1j}}{h_{s'i1j}} \sum_{k=1}^{h_{s'i1j}} x_{s'i1jk} + D^*_{s'i} \frac{H_{s'i2j}}{h_{s'i2j}} \sum_{k=1}^{h_{s'i2j}} x_{s'i2jk} \right],$$

$$v_{ws'i1} = \sum_j v_{ws'i1j} \ , \quad v_{ws'i2} = \sum_j v_{ws'i2j} \ ,$$

$$v_{ws'i1j} = \frac{H^2_{s'i1j}}{h_{s'i1j}} \left(1 - \frac{h_{s'i1j}}{H_{s'i1j}}\right) \frac{1}{h_{s'i1j} - 1} \sum_{k=1}^{h_{s'i1j}} \left[(y_{s'i1jk} - \hat{R} \times x_{s'ij1k}) - \frac{\sum_{k=1}^{h_{s'i1j}} (y_{s'i1jk} - \hat{R} \times x_{s'ij1k})}{h_{s'i1j}} \right]^2$$

$$v_{ws'i2j} = \frac{(D^*_{s'i} H_{s'i2j})^2}{h_{s'i2j}} \left(1 - \frac{h_{s'i2j}}{D^*_{s'i} H_{s'i2j}}\right) \frac{1}{h_{s'i2j} - 1} \sum_{k=1}^{h_{s'i2j}} \left[(y_{s'i2jk} - \hat{R} \times x_{s'ij2k}) - \frac{\sum_{k=1}^{h_{s'i2j}} (y_{s'i2jk} - \hat{R} \times x_{s'ij2k})}{h_{s'i2j}} \right]^2$$

c) For urban stratum with sub-stratum formation:

$\hat{MSE}_{s'}(\hat{R}) = \sum_{t=1}^{2} \hat{MSE}_{s't}(\hat{R})$ where $\hat{MSE}_{s't}(\hat{R})$ can be obtained from the formula given in (b) above with appropriate choice of N, n, H, h, y etc. relating to the sub-stratum 't' only of stratum 's'.

C) Estimates of RSE:

$$\hat{RSE}\left(\hat{Y}\right) = \frac{\sqrt{\hat{Var}\left(\hat{Y}\right)}}{\hat{Y}} \times 100$$

$$\hat{RSE}\left(\hat{R}\right) = \frac{\sqrt{\hat{MSE}\left(\hat{R}\right)}}{\hat{R}} \times 100$$

4.7 **Alternative estimates of errors**:

Since samples have been drawn in the form of two independent sub-samples, estimates of errors for $\hat{Y}$ and $\hat{R}$ may also be obtained from differences of sub-sample estimates using indirect formulae.

5. **Multipliers**: The formulae for multipliers for a sub-sample m and schedule type are given below.

(i) Rural FSUs:

sch type	stratum	formula for multipliers
		segment 2
0.0 / 3.1@	s=1	$\frac{N_s}{n_{sm}} \times D^*_{smi}$
	s ≠ 1	$\frac{Z_s}{n_{sm}} \times \frac{1}{z_{smi}} \times D^*_{smi}$
1.0	s=1	$\frac{N_s}{n_{smj}} \times D^*_{smi} \times \frac{H_{smi2j}}{h_{smi2j}}$, j = 1, 2
	s ≠ 1	$\frac{Z_s}{n_{smj}} \times \frac{1}{z_{smi}} \times D^*_{smi} \times \frac{H_{smi2j}}{h_{smi2j}}$, j = 1, 2
26 / 1.2	s=1	$\frac{N_s}{n_{smj}} \times D^*_{smi} \times \frac{H_{smi2j}}{h_{smi2j}}$, j = 1, 2, 3
	s ≠ 1	$\frac{Z_s}{n_{smj}} \times \frac{1}{z_{smi}} \times D^*_{smi} \times \frac{H_{smi2j}}{h_{smi2j}}$, j = 1, 2, 3

@ For sch. 3.1, D^*_{smi} is to be taken as 1.

(ii) Urban FSUs:

sch type	stratum	sub-stratum	formula for multipliers	
			segment 1	segment 2
0.0	s	t (t=1, 2)	$\frac{N_{st}}{n_{stm}}$	$\frac{N_{st}}{n_{stm}} \times D^*_{stmi}$
0.21	s	t (t=1, 2)	$\frac{N_{st}}{n_{stm}}$	
1.0	s	t (t=1, 2)	$\frac{N_{st}}{n_{stmj}} \times \frac{H_{stmi1j}}{h_{stmi1j}}$, j = 1, 2	$\frac{N_{st}}{n_{stm}} \times D^*_{stmi} \times \frac{H_{stmi2j}}{h_{stmi2j}}$, j = 1, 2
26 / 1.2	s	t (t=1, 2)	$\frac{N_{st}}{n_{stmj}} \times \frac{H_{stmi1j}}{h_{stmi1j}}$, j = 1, 2, 3	$\frac{N_{st}}{n_{stm}} \times D^*_{stmi} \times \frac{H_{stmi2j}}{h_{stmi2j}}$, j = 1, 2, 3

Note: (i) For estimating any characteristic for any domain not specifically considered in sample design, indicator variable may be used.

(ii) Multipliers have to be computed on the basis of information available in the listing schedule irrespective of any mismatch observed between the listing schedule and detailed enquiry schedule

6. **Treatment for zero cases, casualty cases etc.**:

6.1 While counting the number of FSUs surveyed (n_{stm}) in a stratum/sub-stratum, all the FSUs with survey codes 1 to 6 in schedule 0.0 will be considered. In addition, for a particular schedule if no USU is available in the frame then also that FSU will be treated as surveyed in respect of that schedule. However, if the USUs of a particular schedule type are available in the frame of the FSU but none of these could be surveyed then that FSU has to be treated as casualty and it will not be treated as surveyed in respect of that schedule.

6.2 *Casualty cases*: FSUs with survey code 7 as per schedule 0.0 are treated as casualties. In addition to this, an FSU, although surveyed, may have to be treated as casualties for a particular schedule type and a particular *second stage stratum* as given in the following para:

6.2.1 FSUs with survey codes 1 and 4 as per schedule 0.0 having number of households in the frame of j-th second stage stratum greater than 0 but number of households surveyed according to data file, considering both segments together, as nil (i.e. $H_{i1j} + H_{i2j} > 0$ but $h_{i1j} + h_{i2j} = 0$) will be taken as casualties for j-th second stage stratum.

All the FSUs with survey codes 1 to 6 as per schedule 0.0 minus the number of casualties as identified above will be taken as the number of surveyed FSUs (n_{stmj}) for that stratum (or sub-stratum) × second stage stratum.

When casualty for j-th second stage stratum occurs for a particular segments but not for the other segments, the FSU will not be treated as casualty but some adjustments in the value of H for the other segments will be done as follows:

(i) Suppose for segment 1, $H_{i1j} > 0$ but $h_{i1j} = 0$ while for segment 2, $H_{i2j} > 0$ and $h_{i2j} > 0$. In that case $D_i^* \times H_{i2j}$ will be replaced by $H_{i1j} + D_i^* \times H_{i2j}$ in the formula for multiplier of segment 2.

(ii) Suppose for segment 1, $H_{stmi1j} > 0$ and $h_{stmi1j} > 0$ while for segment 2, $H_{i2j} > 0$ but $h_{i2j} = 0$. In that case H_{i1j} will be replaced by $H_{i1j} + D_i^* \times H_{i2j}$ in the formula for multiplier of segments 1.

It may be noted that n_{stmj} will be same for segments *1 & 2 of an FSU.*

7. **Treatment in cases of void second-stage strata/sub-strata /strata/NSS region at FSU or enterprise level:**

7.1 A stratum/ sub-stratum may be void because of the casualty of all the FSUs belonging to the stratum/ sub-stratum. This may occur in one sub-sample or in both the sub-samples. If it relates to only one sub-sample, then estimate for the void stratum/ sub-stratum may be replaced with the estimate as obtained from the other sub-sample for the same stratum/sub-stratum.

7.3 When a stratum /sub-stratum is void in both the sub-samples, the following procedure is recommended:

Case(I): Stratum/sub-stratum void cases at FSU levels (i.e. all FSUs having survey code 7):

i) If a rural stratum, except stratum 1, is void then it may be merged with a similar stratum within the same NSS region.

ii) If sub-stratum 1 of an urban stratum is void then it may be merged with sub-stratum 2 of the same stratum. If sub-stratum 2 is void or both the sub-strata are void, merging may be done with another stratum within the same NSS region sub-stratum wise.

iii) If all the strata within an NSS region is void, it may be excluded from the coverage of the survey. The state level estimates will be based on the estimates of NSS regions for which estimates are available.

Case (II): Stratum/ sub-stratum void case at second stage stratum level (i.e. all the FSUs are casualties for a particular second stage stratum):

An FSU may be a casualty for a particular *second stage stratum* although survey code is not 7. If all the FSUs of a stratum/ sub-stratum become casualties in this manner for a particular *second stage stratum*, the stratum/sub-stratum will become void. The adjustment for this type of stratum /sub-stratum void case may be done according to the following guidelines.

The adjustment will be made involving other strata (within NSS region) of the State/U.T. Suppose A, B, C, and D are the four strata in the State/UT and stratum C is void for j-th *second stage stratum*. If $\hat{Y}_{aj}$, $\hat{Y}_{bj}$ and $\hat{Y}_{dj}$ are the aggregate estimates for the strata A, B and D respectively, then the estimate $\hat{Y}_{cj}$ for stratum C may be obtained as $\left(\frac{\hat{Y}_{aj}+\hat{Y}_{bj}+\hat{Y}_{dj}}{Z_a+Z_b+Z_d}\times Z_c\right)$ where Z_a, Z_b, Z_c and Z_d are the sizes of strata A, B, C and D respectively. Similar procedure may be adopted when j-th *second stage stratum* of a sub-stratum is void.

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Table 1: Distribution of sample villages and blocks

state		number of sample villages / blocks					
		central sample			state sample		
code	name	rural	urban	total	rural	urban	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
28	ANDHRA PRADESH	308	224	532	308	224	532
12	ARUNACHAL PRADESH	72	36	108	72	36	108
18	ASSAM	236	68	304	236	68	304
10	BIHAR	364	84	448	364	84	448
22	CHHATISGARH	84	40	124	84	40	124
30	GOA	8	8	16	12	12	24
24	GUJARAT	120	136	256	120	136	256
06	HARYANA	80	64	144	80	64	144
02	HIMACHAL PRADESH	104	20	124	104	20	124
01	JAMMU & KASHMIR	152	100	252	304	200	504
20	JHARKHAND	132	76	208	132	76	208
29	KARNATAKA	180	188	368	180	188	368
32	KERALA	172	108	280	172	108	280
23	MADHYA PRADESH	244	180	424	244	180	424
27	MAHARASHTRA	292	420	712	292	630	922
14	MANIPUR	92	60	152	184	120	304
17	MEGHALAYA	64	32	96	64	32	96
15	MIZORAM	38	76	114	38	76	114
13	NAGALAND	44	20	64	44	60	104
21	ORISSA	192	68	260	192	68	260
03	PUNJAB	104	104	208	104	104	208
08	RAJASTHAN	228	140	368	228	140	368
11	SIKKIM	56	16	72	56	16	72
33	TAMILNADU	228	356	584	228	356	584
16	TRIPURA	104	40	144	104	40	144
05	UTTARANCHAL	48	32	80	48	32	80
09	UTTAR PRADESH	592	308	900	592	308	900
19	WEST BENGAL	372	292	664	372	292	664
35	ANDAMAN & NICOBAR IS.	20	16	36	0	0	0
04	CHANDIGARH	8	20	28	8	20	28
26	DADRA & NAGAR HAVELI	12	12	24	0	0	0
25	DAMAN & DIU	8	16	24	8	16	24
07	DELHI	8	144	152	16	288	304
31	LAKSHADWEEP	8	8	16	0	0	0
34	PONDICHERRY	12	40	52	12	40	52
ALL – INDIA		**4786**	**3552**	**8338**	**5002**	**4074**	**9076**

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
		ANDHRA PRADESH (28)			
-	01	-	2636	2	2
-	02	-	1738780	10	10
281	03	SRIKAKULAM	990053	6	6
281	04	SRIKAKULAM	1039621	8	8
281	05	VIZIANAGARAM	1722372	10	10
281	06	VISAKHAPATNAM	1938139	12	12
281	07	EAST GODAVARI	1486281	8	8
281	08	EAST GODAVARI	1727909	10	10
281	09	WEST GODAVARI	1254059	8	8
281	10	WEST GODAVARI	1306297	8	8
281	11	KRISHNA	1133938	8	8
281	12	KRISHNA	1140518	8	8
281	13	GUNTUR	1300831	8	8
281	14	GUNTUR	1428034	8	8
281	15	PRAKASAM	1095565	8	8
281	16	PRAKASAM	1045572	8	8
281	17	NELLORE	1775245	10	10
284	18	CHITTOOR	1164559	8	8
284	19	CHITTOOR	1397737	8	8
284	20	CUDDAPAH	1622043	10	10
283	21	ANANTAPUR	1146722	8	8
283	22	ANANTAPUR	1221591	8	8
283	23	KURNOOL	1058111	8	8
283	24	KURNOOL	1020939	8	8
282	25	MAHBUBNAGAR	1365770	8	8
282	26	MAHBUBNAGAR	1315306	8	8
282	27	RANGAREDDY	1346536	8	8
282	28	MEDAK	1941236	12	12
282	29	NIZAMABAD	1624547	10	10
282	30	ADILABAD	1543378	8	8
282	31	KARIMNAGAR	1108432	8	8
282	32	KARIMNAGAR	1256882	8	8
282	33	WARANGAL	1246099	8	8
282	34	WARANGAL	970904	6	6
282	35	KHAMMAM	1674002	10	10
282	36	NALGONDA	1169257	8	8
282	37	NALGONDA	1268460	8	8
state total			**48588361**	**308**	**308**

* N_s for stratum 1

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
		ARUNACHAL PRADESH (12)			
-	01		740	2	2
121	03	TAWANG	23143	2	2
121	04	WEST KAMENG	42215	4	4
121	05	EAST KAMENG	48717	6	6
121	06	LOWER SUBANSIRI	80793	12	12
121	07	UPPER SUBANSIRI	46443	6	6
121	08	WEST SIANG	45927	6	6
121	09	EAST SIANG	84665	12	12
121	10	DIBANG VALLEY	22726	2	2
121	11	LOHIT	41695	4	4
121	12	CHANGLANG	36058	4	4
121	13	TIRAP	78244	12	12
state total			**551366**	**72**	**72**
		ASSAM (18)			
-	01	-	2014	2	2
182	03	DHUBRI	1069585	12	12
182	04	KOKRAJHAR	749693	8	8
182	05	BONGAIGAON	733024	8	8
182	06	GOALPARA	615398	8	8
182	07	BARPETA	1287720	14	14
182	08	NALBARI	992675	10	10
182	09	KAMRUP	1343624	16	16
182	10	DARRANG	1234387	14	14
182	11	SONITPUR	1318970	16	16
181	12	LAKHIMPUR	701153	8	8
181	13	DHEMAJI	468439	8	8
182	14	MARIGAON	606386	8	8
182	15	NAGAON	1686255	20	20
181	16	GOLAGHAT	778586	8	8
181	17	JORHAT	737187	8	8
181	18	SIBSAGAR	841764	10	10
181	19	DIBRUGARH	857624	10	10
181	20	TINSUKIA	800512	8	8
183	21	KARBI ANGLONG	578577	8	8
183	22	NORTH CACHAR HILLS	114439	4	4
181	23	KARIMGANJ	766028	8	8
181	24	HAILAKANDI	414820	8	8
181	25	CACHAR	1095005	12	12
state total			**19793865**	**236**	**236**
		BIHAR (10)			
-	01	-	7997	2	2

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
-	02	-	1899218	10	10
102	03	PATNA	1143756	8	8
102	04	PATNA	981881	6	6
102	05	NALANDA	1701777	10	10
102	06	BHOJPUR	1538434	8	8
102	07	ROHTAS	1457091	8	8
102	08	AURANGABAD	1421062	8	8
102	09	JEHANABAD	1100339	8	8
102	10	GAYA	1223170	8	8
102	11	GAYA	1084245	8	8
102	12	NAWADA	1247833	8	8
101	13	SARAN	1263655	8	8
101	14	SARAN	1039386	8	8
101	15	SIWAN	975048	6	6
101	16	SIWAN	1079814	8	8
101	17	GOPALGANJ	1591628	10	10
101	18	PASHCHIM CHAMPARAN	976099	6	6
101	19	PASHCHIM CHAMPARAN	1048744	8	8
101	20	PURBA CHAMPARAN	1436346	8	8
101	21	PURBA CHAMPARAN	1275136	8	8
101	22	SITAMARHI	982476	6	6
101	23	SITAMARHI	1139614	8	8
101	24	MUZAFFARPUR	1494821	8	8
101	25	MUZAFFARPUR	1108115	8	8
101	26	VAISHALI	1092983	8	8
101	27	VAISHALI	892483	6	6
102	28	BEGUSARAI	1425385	8	8
101	29	SAMASTIPUR	1251902	8	8
101	30	SAMASTIPUR	1252416	8	8
101	31	DARBHANGA	1008644	6	6
101	32	DARBHANGA	1165506	8	8
101	33	MADHUBANI	1357066	8	8
101	34	MADHUBANI	1242573	8	8
101	35	SAHARSA	983054	6	6
101	36	MADHEPURA	1006804	6	6
101	37	PURNIA	1645415	10	10
101	38	KATIHAR	1603884	10	10
102	39	KHAGARIA	829469	6	6
102	40	MUNGER	1552782	8	8
102	41	BHAGALPUR	1333662	8	8
101	42	ARARIA	1493322	8	8
101	43	KISHANGANJ	884283	6	6
102	44	BUXAR	852606	6	6
102	45	BHABUA	1129647	8	8

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
101	46	SUPAUL	1219628	8	8
102	47	JAMUI	974149	6	6
102	48	BANKA	1245782	8	8
state total			**57661130**	**364**	**364**
		CHHATISGARH (22)			
-	01	-	1069	2	2
221	03	SURGUJA	1830476	10	10
221	04	BILASPUR	1575104	10	10
221	05	BILASPUR	1572835	10	10
221	06	RAIGARH	1558485	8	8
221	07	RAJNANDGAON	1210902	6	6
221	08	DURG	1551245	8	8
221	09	RAIPUR	1623458	10	10
221	10	RAIPUR	1511294	8	8
221	11	BASTAR	992689	6	6
221	12	BASTAR	1111964	6	6
state total			**14539521**	**84**	**84**
		GOA (30)			
301	03	NORTH GOA	439213	6	8
301	04	SOUTH GOA	250851	2	4
state total			**690064**	**8**	**12**
		GUJARAT (24)			
-	01	-	714	2	2
-	02	-	220962	2	2
245	03	JAMNAGAR	932198	4	4
245	04	RAJKOT	1312065	6	6
244	05	SURENDRANAGAR	846095	4	4
245	06	BHAVNAGAR	1487033	6	6
245	07	AMRELI	982869	4	4
245	08	JUNAGADH	1578397	6	6
244	09	KACHCHH	873729	4	4
244	10	BANASKANTHA	1925898	8	8
242	11	SABARKANTHA	1071992	4	4
241	12	SABARKANTHA	503780	2	2
242	13	MAHESANA	966639	4	4
244	14	MAHESANA	382807	2	2
242	15	MAHESANA	941743	4	4
242	16	GANDHINAGAR	241773	2	2
242	17	AHMADABAD	1215127	6	6
242	18	KHEDA	1470137	6	6

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
242	19	KHEDA	1070594	4	4
243	20	PANCHMAHALS	771713	4	4
241	21	PANCHMAHALS	1251050	6	6
243	22	PANCHMAHALS	599523	2	2
243	23	VADODARA	1115684	4	4
241	24	VADODARA	630456	2	2
241	25	BHARUCH	581687	2	2
243	26	BHARUCH	635426	2	2
243	27	SURAT	463600	2	2
241	28	SURAT	1216002	6	6
243	29	VALSAD	372101	2	2
241	30	VALSAD	1269716	6	6
241	31	DANGS	128142	2	2
state total			**27059652**	**120**	**120**
		HARYANA (06)			
-	01	-	415	2	2
-	02	-	97878	2	2
061	03	AMBALA	719638	4	4
061	04	YAMUNANAGAR	544458	4	4
061	05	KURUKSHETRA	487671	4	4
061	06	KAITHAL	680072	4	4
061	07	KARNAL	642266	4	4
061	08	PANIPAT	607156	4	4
061	09	SONIPAT	576780	4	4
061	10	ROHTAK	1422987	8	8
061	11	FARIDABAD	759524	4	4
061	12	GURGAON	913072	6	6
062	13	REWARI	528058	4	4
062	14	MAHENDRAGARH	597147	4	4
062	15	BHIWANI	924769	6	6
062	16	JIND	797560	4	4
062	17	HISAR	1415009	8	8
062	18	SIRSA	688924	4	4
state total			**12403384**	**80**	**80**
		HIMACHAL PRADESH (02)			
-	01	-	4953	2	2
021	03	CHAMBA	361547	8	8
021	04	KANGRA	1105313	24	24
021	05	HAMIRPUR	339505	8	8
021	06	UNA	344737	8	8
021	07	BILASPUR	276726	6	6
021	08	MANDI	712357	14	14

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
021	09	KULLU	281421	6	6
021	10	LAHUL & SPITI	28420	2	2
021	11	SHIMLA	479298	10	10
021	12	SOLAN	313977	6	6
021	13	SIRMAUR	339789	8	8
021	14	KINNAUR	70114	2	2
state total			**4658157**	**104**	**104**
		JAMMU & KASHMIR (01)			
	01		402	2	4
013	03	ANANTANAG	552282	18	36
013	04	PULWAMA	359577	12	24
013	05	SRINAGAR	137987	6	12
013	06	BADGAM	314066	10	20
013	07	BARAMULA	577624	18	36
013	08	KUPWARA	316621	10	20
012	09	DODA	403193	12	24
012	10	UDHAMPUR	411245	12	24
011	11	KATHUA	343984	12	24
011	12	JAMMU	659607	20	40
012	13	RAJAURI	281139	10	20
012	14	PUNCH	233341	10	20
state total			**4591068**	**152**	**304**
		JHARKHAND (20)			
-	01	-	5722	2	2
201	03	GODDA	833473	6	6
201	04	SAHIBGANJ	662693	6	6
201	05	DUMKA	1400284	10	10
201	06	DEOGHAR	802798	6	6
201	07	DHANBAD	990099	8	8
201	08	GIRIDIH	1384375	10	10
201	09	HAZARIBAG	1184426	8	8
201	10	PALAMU	1543622	10	10
201	11	LOHARDAGA	257090	4	4
201	12	GUMLA	1101427	8	8
201	13	RANCHI	1482606	10	10
201	14	PURBI SINGHBHUM	760894	6	6
201	15	PASHCHIMI SINGHBHUM	1503328	10	10
201	16	PAKUR	536091	4	4
201	17	BOKARO	805196	6	6
201	18	KODARMA	561409	6	6
201	19	CHATRA	578466	6	6

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
201	20	GARHWA	772526	6	6
state total			**17166525**	**132**	**132**
		KARNATAKA (29)			
-	01	-	3140	2	2
-	02	-	168508	2	2
293	03	BANGALORE	669276	4	4
293	04	BANGALORE RURAL	1368404	8	8
294	05	BELGAUM	1328147	6	6
294	06	BELGAUM	1342131	6	6
294	07	BELLARY	1292214	6	6
294	08	BIDAR	993757	6	6
294	09	BIJAPUR	952592	6	6
294	10	BIJAPUR	1286556	6	6
292	11	CHIKMAGALUR	844452	6	6
294	12	CHITRADURGA	1574505	8	8
291	13	DAKSHIN KANNAD	1931670	10	10
294	14	DHARWAD	960368	6	6
294	15	DHARWAD	616164	4	4
294	16	DHARWAD	702403	4	4
294	17	GULBARGA	985628	6	6
294	18	GULBARGA	986655	6	6
292	19	HASSAN	1293571	6	6
292	20	KODAGU	410482	4	4
293	21	KOLAR	849736	6	6
293	22	KOLAR	847541	6	6
293	23	MANDYA	1376890	8	8
293	24	MYSORE	1078070	6	6
293	25	MYSORE	1144762	6	6
294	26	RAICHUR	1798100	10	10
292	27	SHIMOGA	1401209	8	8
293	28	TUMKUR	961250	6	6
293	29	TUMKUR	958668	6	6
291	30	UTTAR KANNAD	923107	6	6
state total			**31049956**	**180**	**180**
		KERALA (32)			
321	03	KASARAGOD	939713	8	8
321	04	KANNUR	1757362	12	12
321	05	WAYANAD	649180	6	6
321	06	KOZHIKODE	1930463	12	12
321	07	MALAPPURAM	1515624	10	10
321	08	MALAPPURAM	1321430	10	10

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
321	09	PALAKKAD	928901	8	8
321	10	PALAKKAD	1167049	8	8
322	11	THRISSUR	1337334	10	10
322	12	THRISSUR	1055104	8	8
322	13	ERNAKULAM	1860126	12	12
322	14	IDUKKI	1037410	8	8
322	15	KOTTAYAM	1610750	10	10
322	16	ALAPPUZHA	1582715	10	10
322	17	PATHANAMTHITTA	1031435	8	8
322	18	KOLLAM	1109744	8	8
322	19	KOLLAM	962961	8	8
322	20	THIRUVANANTHAPURAM	1061246	8	8
322	21	THIRUVANANTHAPURAM	1053739	8	8
state total			**23912286**	**172**	**172**
		MADHYA PRADESH (23)			
-	01	-	6072	2	2
236	03	MORENA	1358999	8	8
236	04	BHIND	967592	6	6
236	05	GWALIOR	581779	4	4
236	06	DATIA	307162	4	4
236	07	SHIVPURI	959933	6	6
236	08	GUNA	1052685	6	6
231	09	TIKAMGARH	781274	6	6
231	10	CHHATARPUR	933793	6	6
231	11	PANNA	597228	6	6
232	12	SAGAR	1164006	6	6
232	13	DAMOH	733326	6	6
231	14	SATNA	1173017	6	6
231	15	REWA	1311025	8	8
231	16	SHAHDOL	1374446	8	8
231	17	SIDHI	1281907	8	8
233	18	MANDSAUR	1194783	8	8
233	19	RATLAM	661257	6	6
233	20	UJJAIN	836186	6	6
233	21	SHAJAPUR	850093	6	6
233	22	DEWAS	764965	6	6
233	23	JHABUA	1031870	6	6
233	24	DHAR	1186511	6	6
233	25	INDORE	561010	4	4
235	26	KHARGONE	1721258	10	10
235	27	EAST NIMAR (KHANDWA)	1037108	6	6
233	28	RAJGARH	824448	6	6

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
232	29	VIDISHA	774122	6	6
232	30	BHOPAL	270078	4	4
232	31	SEHORE	689263	6	6
232	32	RAISEN	737233	6	6
235	33	BETUL	960808	6	6
235	34	HOSHANGABAD	919326	6	6
234	35	JABALPUR	1441746	8	8
234	36	NARSIMHAPUR	667031	6	6
234	37	MANDLA	1191322	8	8
234	38	CHHINDWARA	1204968	8	8
234	39	SEONI	905334	6	6
234	40	BALAGHAT	1234960	8	8
state total			**36249924**	**244**	**244**
		MAHARASHTRA (27)			
-	01	-	3510	2	2
-	02	-	854772	4	4
271	03	THANE	1807825	10	10
271	04	RAIGARH	1495653	8	8
271	05	RATNAGIRI	1405715	8	8
271	06	SINDHUDURG	768876	6	6
273	07	NASHIK	1074628	8	8
273	08	NASHIK	1368660	8	8
273	09	DHULE	1981339	10	10
273	10	JALGAON	935532	8	8
273	11	JALGAON	1240706	8	8
272	12	AHMADNAGAR	1239805	8	8
272	13	AHMADNAGAR	1487643	8	8
272	14	PUNE	1533336	8	8
272	15	PUNE	1135547	8	8
272	16	SATARA	926201	6	6
272	17	SATARA	1193326	8	8
272	18	SANGLI	1633404	8	8
272	19	SOLAPUR	900968	6	6
272	20	SOLAPUR	1282160	8	8
272	21	KOLHAPUR	1184615	8	8
272	22	KOLHAPUR	918835	6	6
274	23	AURANGABAD	1487937	8	8
274	24	JALNA	1133642	8	8
274	25	PARBHANI	1640090	8	8
274	26	BID	1476460	8	8
274	27	NANDED	1803725	10	10
274	28	OSMANABAD	1082424	8	8
274	29	LATUR	1319513	8	8

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
275	30	BULDANA	1497064	8	8
275	31	AKOLA	1561547	8	8
275	32	AMRAVATI	1480712	8	8
275	33	YAVATMAL	1682848	10	10
275	34	WARDHA	782727	6	6
275	35	NAGPUR	1254113	8	8
276	36	BHANDARA	1830980	10	10
276	37	CHANDRAPUR	1273849	8	8
276	38	GADCHIROLI	699513	6	6
state total			**48380200**	**292**	**292**
		MANIPUR (14)			
-	01	-	163	2	4
142	03	SENAPATI	206904	14	28
142	04	TAMENGLONG	85965	6	12
142	05	CHURACHANPUR	141426	10	20
142	06	CHANDEL	60769	4	8
141	07	THOUBAL	186504	12	24
141	08	BISHNUPUR	117603	8	16
141	09	IMPHAL	419478	30	60
142	10	UKHRUL	108926	6	12
state total			**1327738**	**92**	**184**
		MEGHALAYA (17)			
-	01	-	769	2	2
171	03	JAINTIA HILLS	198490	8	8
171	04	EAST KHASI HILLS	303602	14	14
171	05	WEST KHASI HILLS	203339	8	8
171	06	EAST GORA HILLS	174396	8	8
171	07	WEST GARO HILLS	353739	16	16
171	08	RI-BHOI	125231	4	4
171	09	SOUTH GARO HILLS	66206	4	4
state total			**1425772**	**64**	**64**
		MIZORAM (15)			
-	01	-	116	2	2
151	03	AIZAWL	218276	22	22
151	04	LUNGLEI	66706	6	6
151	05	CHHIMTUIPUI	86088	8	8
state total			**371186**	**38**	**38**
		NAGALAND (13)			
131	03	KOHIMA	150815	16	16

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
131	04	PHEK	52070	4	4
131	05	ZUNHEBOTO	34890	4	4
131	06	WOKHA	20703	4	4
131	07	MOKOKCHUNG	77989	8	8
131	08	TUENSANG	52775	4	4
131	09	MON	24873	4	4
state total			**414115**	**44**	**44**
		ORISSA (21)			
-	01	-	7473	2	2
213	03	SAMBALPUR	537796	4	4
213	04	SUNDARGARH	1046602	6	6
213	05	KENDUJHAR	1168408	8	8
213	06	MAYURBHANJ	1764422	12	12
211	07	BALESHWAR	1537473	10	10
211	08	CUTTACK	1565990	10	10
213	09	DHENKANAL	868336	6	6
212	10	PHULABANI	496332	4	4
213	11	BALANGIR	1101130	6	6
212	12	KALAHANDI	1005639	6	6
212	13	KORAPUT	880759	6	6
211	14	GANJAM	1198501	8	8
211	15	GANJAM	1122236	6	6
211	16	PURI	1140641	8	8
211	17	BHADRAK	995430	6	6
211	18	JAGATSINGHPUR	855907	6	6
211	19	JAJPUR	1331466	8	8
211	20	KENDRAPARA	1084603	6	6
211	21	NAYAGARH	750447	6	6
211	22	KHURDA	984743	6	6
211	23	GAJAPATI	352225	4	4
212	24	BOUDH	297058	4	4
212	25	NAWAPARA	442852	4	4
212	26	MALKANGIRI	384875	4	4
212	27	NAWARANGAPUR	771297	6	6
212	28	RAYAGADA	612668	6	6
213	29	JHARSUGUDA	350171	4	4
213	30	DEOGARH	214657	4	4
213	31	BARGARH	1126518	6	6
213	32	SONEPUR	440352	4	4
213	33	ANGUL	847130	6	6
state total			**27284137**	**192**	**192**

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
		PUNJAB (03)			
-	01	-	736	2	2
031	03	GURDASPUR	1369239	10	10
031	04	AMRITSAR	1650061	12	12
032	05	FIROZPUR	1222358	8	8
031	06	LUDHIANA	1135028	8	8
031	07	JALANDHAR	1296777	10	10
031	08	KAPURTHALA	478630	4	4
031	09	HOSHIARPUR	1231484	8	8
031	10	RUPNAGAR	682357	4	4
032	11	PATIALA	1058819	8	8
032	12	SANGRUR	1291942	10	10
032	13	BATHINDA	713776	4	4
032	14	FARIDKOT	1290908	10	10
032	15	FATEHPUR SAHIB	323940	2	2
032	16	MANSA	495044	4	4
state total			**14241099**	**104**	**104**
		RAJASTHAN (08)			
-	01	-	3674	2	2
-	02	-	105743	2	2
081	03	GANGANAGAR	1008437	6	6
081	04	GANGANAGAR	1039586	6	6
081	05	BIKANER	688612	6	6
081	06	CHURU	1096781	6	6
082	07	JHUNJHUNUN	1241154	8	8
082	08	ALWAR	573258	6	6
082	09	ALWAR	1069057	6	6
082	10	BHARATPUR	1330392	8	8
082	11	DHAULPUR	620599	6	6
082	12	SAWAI MADHOPUR	1523809	10	10
082	13	JAIPUR	1028620	6	6
082	14	JAIPUR	1067426	6	6
082	15	SIKAR	1455004	8	8
082	16	AJMER	1022823	6	6
082	17	TONK	783390	6	6
081	18	JAISALMER	289539	4	4
081	19	JODHPUR	1388772	8	8
081	20	NAGAUR	1768146	10	10
081	21	PALI	1162882	8	8
081	22	BARMER	1290513	8	8
081	23	JALOR	1059202	6	6
081	24	SIROHI	526224	6	6
082	25	BHILWARA	1281057	8	8

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
083	26	UDAIPUR	1668889	10	10
084	27	CHITTAURGARH	1249498	8	8
083	28	DUNGARPUR	810507	6	6
083	29	BANSWARA	1065329	6	6
084	30	BUNDI	636262	6	6
084	31	KOTA	601851	6	6
084	32	JHALAWAR	805239	6	6
082	33	DAUSA	888223	6	6
083	34	RAJSAMAND	723805	6	6
084	35	BARAN	686208	6	6
state total			**33560511**	**228**	**228**
		SIKKIM (11)			
111	03	NORTH DISTRICT	30403	4	4
111	04	EAST DISTRICT	146584	24	24
111	05	SOUTH DISTRICT	95907	14	14
111	06	WEST DISTRICT	96400	14	14
state total			**369294**	**56**	**56**
		TAMILNADU (33)			
-	01	-	1452	2	2
-	02	-	1226346	6	6
331	03	CHENGALPATTU	1206549	8	8
331	04	CHENGALPATTU	1308047	8	8
331	05	NORTH ARCOT AMBEDKAR	957053	6	6
331	06	NORTH ARCOT AMBEDKAR	1109576	8	8
334	07	DHARMAPURI	1169059	8	8
334	08	DHARMAPURI	1012986	8	8
331	09	TIRUVANNAMALAI SAMBUVARAYAR	1799932	10	10
331	10	SOUTH ARCOT VALLALAR	1560537	8	8
334	11	SALEM	1236017	8	8
334	12	SALEM	1419712	8	8
334	13	PERIYAR	1626878	10	10
334	14	NILGIRI	218402	4	4
334	15	COIMBATORE	1514924	8	8
333	16	DINDIGUL	1365344	8	8
332	17	TIRUCHCHIRAPPALLI	1554077	8	8
332	18	TIRUCHCHIRAPPALLI	1410345	8	8
332	19	THANJAVUR	1563545	8	8
332	20	PUDUKKOTTAI	1136161	8	8
333	21	PASUMPON MUTHURAMALINGA THEVAR	787645	6	6
333	22	MADURAI	1843595	10	10

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
333	23	KAMARAJAR	963839	6	6
333	24	RAMANATHAPURAM	845867	6	6
333	25	CHIDAAMBARANAR	856203	6	6
333	26	TIRUNELVELI KATTABOMMAN	1629921	10	10
333	27	KANYAKUMARI	986193	8	8
331	28	VILLUPURAM	1295679	8	8
331	29	VILLUPURAM	945584	6	6
332	30	NAGAPATTINAM-QUAID-E-MILLETH	1928317	12	12
state total			**36479785**	**228**	**228**
		TRIPURA (16)			
161	03	WEST TRIPURA	977957	44	44
161	04	NORTH TRIPURA	636326	28	28
161	05	SOUTH TRIPURA	721202	32	32
state total			**2335485**	**104**	**104**
		UTTAR PRADESH (09)			
-	01	-	12172	2	2
-	02	-	316550	2	2
091	03	BIJNOR	1836188	10	10
091	04	MORADABAD	783233	6	6
091	05	MORADABAD	1167295	6	6
091	06	RAMPUR	1108757	6	6
091	07	SAHARANPUR	1702638	8	8
091	08	MUZAFFARNAGAR	1148664	6	6
091	09	MUZAFFARNAGAR	945323	6	6
091	10	MEERUT	1498279	8	8
091	11	GHAZIABAD	1455450	8	8
091	12	BULANDSHAHR	1246663	6	6
091	13	BULANDSHAHR	1010023	6	6
091	14	ALIGARH	1810109	10	10
091	15	MATHURA	1475339	8	8
091	16	AGRA	1639905	8	8
091	17	FIROZABAD	1125404	6	6
091	18	ETAH	1869612	10	10
091	19	MAINPURI	1142767	6	6
091	20	BUDAUN	756791	6	6
091	21	BUDAUN	1258667	6	6
091	22	BAREILLY	1904523	10	10
091	23	PILIBHIT	1044470	6	6
091	24	SHAHJAHANPUR	1572433	8	8
092	25	KHERI	1257565	6	6
092	26	KHERI	861306	6	6

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
092	27	SITAPUR	1058903	6	6
092	28	SITAPUR	1277121	6	6
092	29	HARDOI	1217566	6	6
092	30	HARDOI	1206597	6	6
092	31	UNNAO	1900791	10	10
092	32	LUCKNOW	1031499	6	6
092	33	RAE BARELI	1039517	6	6
092	34	RAE BARELI	1072869	6	6
091	35	FARRUKHABAD	989015	6	6
091	36	ETAWAH	870732	6	6
092	37	KANPUR DEHAT	883466	6	6
092	38	KANPUR DEHAT	1132293	6	6
092	39	KANPUR NAGAR	381057	6	6
094	40	JALAUN	949783	6	6
094	41	JHANSI	863031	6	6
094	42	LALITPUR	646003	6	6
094	43	HAMIRPUR	1211347	6	6
094	44	BANDA	1084985	6	6
092	45	FATEHPUR	1710973	8	8
093	46	PRATAPGARH	1008924	6	6
093	47	PRATAPGARH	1078965	6	6
093	48	ALLAHABAD	1607982	8	8
093	49	ALLAHABAD	2288505	12	12
093	50	BAHRAICH	1472163	8	8
093	51	BAHRAICH	1057452	6	6
093	52	GONDA	1152377	6	6
093	53	GONDA	902118	6	6
092	54	BARABANKI	1093097	6	6
092	55	BARABANKI	1104810	6	6
093	56	FAIZABAD	1168000	6	6
093	57	FAIZABAD	1462256	8	8
093	58	SULTANPUR	1020214	6	6
093	59	SULTANPUR	1418539	6	6
093	60	SIDDHARTHNAGAR	1647125	8	8
093	61	MAHRAJGANJ	1592967	8	8
093	62	BASTI	880701	6	6
093	63	BASTI	1677189	8	8
093	64	GORAKHPUR	1453379	8	8
093	65	GORAKHPUR	1033348	6	6
093	66	DEORIA	1986090	10	10
093	67	DEORIA	703503	6	6
093	68	DEORIA	1407713	6	6
093	69	MAU	1182900	6	6
093	70	AZAMGARH	1847581	10	10

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
093	71	AZAMGARH	1074750	6	6
093	72	JAUNPUR	1299227	6	6
093	73	JAUNPUR	1687167	8	8
093	74	BALLIA	1159625	6	6
093	75	BALLIA	841417	6	6
093	76	GHAZIPUR	1228529	6	6
093	77	GHAZIPUR	929361	6	6
093	78	VARANASI	936453	6	6
093	79	VARANASI	1441237	8	8
093	80	MIRZAPUR	1426360	6	6
093	81	SONBHADRA	890494	6	6
091	82	AURIYA	898130	6	6
091	83	MAHAMAYANAGAR	657119	6	6
093	84	BALARAMPUR	1253322	6	6
091	85	JYOTIBAFULENAGAR	1012798	6	6
094	86	CHITRAKOOT	537042	6	6
091	87	KANNUAJ	866391	6	6
091	88	BAGPET	672769	6	6
093	89	CHANDAULY	1153166	6	6
state total			**105000000**	**592**	**592**
		UTTARANCHAL (05)			
-	01	-	2905	2	2
051	03	UTTARKASHI	221580	2	2
051	04	CHAMOLI	400647	4	4
051	05	TEHRI GARHWAL	540817	4	4
051	06	DEHRADUN	509148	4	4
051	07	GARHWAL	585129	4	4
051	08	PITHORAGARH	372639	4	4
051	09	ALMORA	773277	6	6
051	10	NAINITAL	1011487	8	8
051	11	HARDWAR	775963	8	8
051	12	CHAMPAWAT	162437	2	2
state total			**5356029**	**48**	**48**
		WEST BENGAL (19)			
-	01	-	3973	2	2
-	02	-	1080712	8	8
191	03	KOCHBIHAR	1104995	10	10
191	04	KOCHBIHAR	787942	8	8
191	05	JALPAIGURI	923584	8	8
191	06	JALPAIGURI	1076733	10	10
191	07	DARJILING	903560	8	8
192	08	WEST DINAJPUR	1446644	10	10

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
192	09	WEST DINAJPUR	1262442	10	10
192	10	MALDAH	1202734	10	10
192	11	MALDAH	1214138	10	10
192	12	MURSHIDABAD	1849911	12	12
192	13	MURSHIDABAD	2156038	16	16
192	14	NADIA	1676691	12	12
192	15	NADIA	1200458	10	10
193	16	NORTH TWENTY FOUR PARGANAS	1932000	14	14
193	17	NORTH TWENTY FOUR PARGANAS	1585180	10	10
193	18	SOUTH TWENTY FOUR PARGANAS	1407155	10	10
193	19	SOUTH TWENTY FOUR PARGANAS	1810291	12	12
193	20	SOUTH TWENTY FOUR PARGANAS	1586977	10	10
193	21	HAORA	1863144	14	14
193	22	HUGLI	1657617	12	12
193	23	HUGLI	1321968	10	10
194	24	MEDINIPUR	1828231	12	12
194	25	MEDINIPUR	1703290	12	12
194	26	MEDINIPUR	1954627	14	14
194	27	MEDINIPUR	1977359	14	14
194	28	BANKURA	1346252	10	10
194	29	BANKURA	1222670	10	10
194	30	PURULIYA	1075858	10	10
194	31	PURULIYA	936124	8	8
193	32	BARDDHAMAN	1817747	12	12
193	33	BARDDHAMAN	2070345	14	14
192	34	BIRBHUM	1210963	10	10
192	35	BIRBHUM	1058077	10	10
state total			**49256430**	**372**	**372**
		ANDAMAN & NICOBAR IS. (35)			
-	01	-	90	2	0
351	03	ANDAMANS	159602	14	0
351	04	NICOBARS	33000	4	0
state total			**192692**	**20**	**0**
		CHANDIGARH (04)			
041	03	CHANDIGARH	66186	8	8
state total			**66186**	**8**	**8**
		DADRA & NAGAR HAVELI (26)			
261	03	DADRA & NAGAR HAVELI	126752	12	0
state total			**126752**	**12**	**0**

Table 2: stratum size and allocation for rural sector

state-region	stratum	district name	stratum size (Z_s) *	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
		DAMAN & DIU (25)			
251	03	DAMAN	35196	6	6
251	04	DIU	18847	2	2
state total			**54043**	**8**	**8**
		DELHI (07)			
-	02	-	350476	2	4
071	03	DELHI	598553	6	12
state total			**949029**	**8**	**16**
		LAKSHADWEEP (31)			
311	03	LAKSHADWEEP	22608	8	0
state total			**22608**	**8**	**0**
		PONDICHERRY (34)			
341	03	PONDICHERRY	206901	8	8
341	04	KARAIKAL	83900	4	4
state total			**290801**	**12**	**12**
		ALL-INDIA	**627110080**	**4786**	**5002**

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
ANDHRA PRADESH (28)					
281	1	1	649	8	8
281	1	2	4386	28	28
281	2	1	507	8	8
281	2	2	3290	22	22
281	3	1	192	4	4
281	3	2	2107	14	14
282	1	1	71	4	4
282	1	2	3901	26	26
282	2	1	106	4	4
282	2	2	4217	26	26
282	4	1	175	4	4
282	4	2	4122	46	46
283	1	1	128	4	4
283	1	2	911	2	2
283	2	1	230	4	4
283	2	2	1060	8	8
284	1	1	91	4	4
284	1	2	859	2	2
284	2	1	56	4	4
284	2	2	816	2	2
state total			**27874**	**224**	**224**
ARUNACHAL PRADESH (12)					
121	1	2	181	36	36
state total			**181**	**36**	**36**
ASSAM (18)					
181	1	2	760	14	14
181	2	2	520	10	10
182	1	1	11	4	4
182	1	2	1474	22	22
182	3	2	632	16	16
183	1	2	185	2	2
state total			**3582**	**68**	**68**
BIHAR (10)					
101	1	2	2644	22	22
101	2	2	1146	10	10
102	1	2	3009	24	24
102	2	2	1609	14	14

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
102	4	2	1441	14	14
state total			**9849**	**84**	**84**
CHHATISGARH (22)					
221	1	1	40	4	4
221	1	2	2813	16	16
221	2	1	117	4	4
221	2	2	2514	16	16
state total			**5484**	**40**	**40**
GOA (30)					
301	1	1	20	4	6
301	1	2	801	4	6
state total			**821**	**8**	**12**
GUJARAT (24)					
241	1	1	16	4	4
241	1	2	1141	2	2
242	1	1	10	4	4
242	1	2	3138	12	12
242	2	1	9	2	2
242	2	2	890	2	2
242	4	1	208	4	4
242	4	2	5001	24	24
243	1	1	27	4	4
243	1	2	1125	2	2
243	2	1	15	2	2
243	2	2	692	2	2
243	4	1	75	4	4
243	4	2	1490	10	10
243	5	1	90	4	4
243	5	2	1630	6	6
244	1	1	31	4	4
244	1	2	1309	4	4
244	2	1	15	2	2
244	2	2	313	2	2
245	1	1	5	4	4
245	1	2	2879	14	14
245	2	1	7	4	4
245	2	2	2211	8	8
245	3	1	36	4	4
245	3	2	824	2	2

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
state total			**23187**	**136**	**136**
HARYANA (06)					
061	1	1	24	4	4
061	1	2	2260	16	16
061	2	2	1859	18	18
061	4	1	69	4	4
061	4	2	607	6	6
062	1	2	1343	10	10
062	2	2	723	6	6
state total			**6885**	**64**	**64**
HIMACHAL PRADESH (02)					
021	1	2	565	16	16
021	2	2	201	4	4
state total			**766**	**20**	**20**
JAMMU & KASHMIR (01)					
011	1	1	3	2	2
011	1	2	275	10	22
011	2	2	553	16	32
012	1	2	243	12	24
013	1	2	495	22	44
013	3	2	640	38	76
state total			**2209**	**100**	**200**
JHARKHAND (20)					
201	1	1	4	2	2
201	1	2	4543	46	46
201	2	1	3	2	2
201	2	2	1567	16	16
201	3	2	773	10	10
state total			**6890**	**76**	**76**
KARNATAKA (29)					
291	1	1	12	4	4
291	1	2	1222	6	6
291	2	1	7	2	2
291	2	2	563	2	2
292	1	1	59	4	4
292	1	2	1039	6	6

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
292	2	1	52	2	2
292	2	2	502	2	2
293	1	1	82	4	4
293	1	2	3381	24	24
293	2	1	27	2	2
293	2	2	479	2	2
293	3	1	19	4	4
293	3	2	967	4	4
293	4	1	368	6	6
293	4	2	5312	40	40
294	1	1	242	4	4
294	1	2	3861	30	30
294	2	1	201	4	4
294	2	2	2816	26	26
294	3	1	70	4	4
294	3	2	1025	6	6
state total			**22306**	**188**	**188**
KERALA (32)					
321	1	1	3	2	2
321	1	2	2851	30	30
321	2	1	32	4	4
321	2	2	817	6	6
322	1	2	4276	38	38
322	2	1	17	4	4
322	2	2	727	6	6
322	3	1	19	4	4
322	3	2	2149	14	14
state total			**10891**	**108**	**108**
MADHYA PRADESH (23)					
231	1	1	19	4	4
231	1	2	2152	14	14
231	2	1	10	2	2
231	2	2	479	2	2
232	1	1	18	4	4
232	1	2	1569	8	8
232	2	1	12	2	2
232	2	2	410	2	2
232	4	1	102	4	4
232	4	2	1743	12	12
233	1	1	49	4	4
233	1	2	2846	20	20

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
233	2	1	12	4	4
233	2	2	937	6	6
233	4	1	66	4	4
233	4	2	2416	14	14
234	1	1	10	4	4
234	1	2	2028	12	12
234	3	1	26	4	4
234	3	2	1124	8	8
235	1	1	70	4	4
235	1	2	1900	8	8
235	2	1	4	2	2
235	2	2	255	2	2
236	1	2	1484	12	12
236	2	2	619	8	8
236	3	2	1267	10	10
state total			**21627**	**180**	**180**
MAHARASHTRA (27)					
271	1	1	54	4	6
271	1	2	1766	8	12
271	2	1	383	4	6
271	2	2	3381	14	20
271	4	1	4787	58	86
271	4	2	12124	74	110
271	5	1	259	4	6
271	5	2	1201	8	12
271	6	1	224	4	6
271	6	2	1582	10	14
272	1	1	114	4	6
272	1	2	3013	24	36
272	2	1	112	4	6
272	2	2	2159	16	24
272	3	1	126	4	6
272	3	2	815	4	8
272	4	1	467	6	8
272	4	2	3188	16	24
272	5	1	122	4	6
272	5	2	1013	4	8
273	1	1	97	4	6
273	1	2	1771	10	14
273	2	1	208	4	6
273	2	2	1675	10	14
273	4	1	66	4	6
273	4	2	1008	6	8

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
274	1	1	162	4	6
274	1	2	2134	14	20
274	2	1	121	4	6
274	2	2	1387	10	14
274	3	1	10	4	6
274	3	2	976	4	8
275	1	1	370	6	8
275	1	2	2777	18	26
275	2	1	234	4	6
275	2	2	1336	10	14
275	4	1	312	4	6
275	4	2	2109	16	24
276	1	1	17	4	6
276	1	2	910	2	8
276	2	1	109	2	2
276	2	2	457	2	6
state total			**55136**	**420**	**630**
MANIPUR (14)					
141	1	2	428	30	60
141	2	2	302	24	48
142	1	2	56	6	12
state total			**786**	**60**	**120**
MEGHALAYA (17)					
171	1	1	8	4	4
171	1	2	460	16	16
171	2	2	274	12	12
state total			**742**	**32**	**32**
MIZORAM (15)					
151	1	2	265	38	38
151	2	2	243	38	38
state total			**508**	**76**	**76**
NAGALAND (13)					
131	1	1	3	2	2
131	1	2	224	18	58
state total			**227**	**20**	**60**
ORISSA (21)					

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
211	1	1	44	4	4
211	1	2	1339	10	10
211	2	1	33	4	4
211	2	2	1915	16	16
212	1	1	83	4	4
212	1	2	700	4	4
213	1	1	29	4	4
213	1	2	1825	14	14
213	2	1	48	4	4
213	2	2	838	4	4
state total			**6854**	**68**	**68**
PUNJAB (03)					
031	1	1	20	4	4
031	1	2	3930	22	22
031	2	2	597	6	6
031	3	2	1314	14	14
031	4	1	9	4	4
031	4	2	1739	16	16
032	1	2	2384	26	26
032	2	2	1032	12	12
state total			**11025**	**104**	**104**
RAJASTHAN (08)					
081	1	1	16	4	4
081	1	2	3544	20	20
081	2	1	8	4	4
081	2	2	1260	6	6
081	3	1	56	4	4
081	3	2	1119	4	4
082	1	2	3611	26	26
082	2	2	2410	16	16
082	4	1	9	4	4
082	4	2	2733	14	14
083	1	2	551	4	4
083	2	1	5	2	2
083	2	2	689	2	2
083	3	2	139	8	8
084	1	2	1299	10	10
084	2	2	25	4	4
084	3	2	800	8	8
state total			**18274**	**140**	**140**

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
SIKKIM (11)					
111	1	2	78	16	16
state total			**78**	**16**	**16**
TAMILNADU (33)					
331	1	1	526	10	10
331	1	2	3553	34	34
331	2	1	217	4	4
331	2	2	2405	26	26
331	4	1	739	16	16
331	4	2	5464	56	56
332	1	1	142	4	4
332	1	2	1895	18	18
332	2	1	101	4	4
332	2	2	713	6	6
332	3	1	45	4	4
332	3	2	650	4	4
333	1	1	267	6	6
333	1	2	4025	44	44
333	2	1	26	4	4
333	2	2	1831	20	20
333	3	1	61	4	4
333	3	2	1373	14	14
334	1	1	129	4	4
334	1	2	3471	38	38
334	2	1	32	4	4
334	2	2	1281	20	20
334	3	1	14	4	4
334	3	2	1137	8	8
state total			**30097**	**356**	**356**
TRIPURA (16)					
161	1	1	6	4	4
161	1	2	331	24	24
161	2	1	30	4	4
161	2	2	247	8	8
state total			**614**	**40**	**40**
UTTAR PRADESH (09)					
091	1	1	5	4	4
091	1	2	10798	66	66

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
091	2	1	85	4	4
091	2	2	6555	36	36
091	3	1	61	4	4
091	3	2	3636	16	16
091	4	1	8	4	4
091	4	2	1935	8	8
091	5	1	9	4	4
091	5	2	1421	4	4
092	1	1	5	4	4
092	1	2	3017	16	16
092	2	1	20	4	4
092	2	2	1017	4	4
092	4	1	81	4	4
092	4	2	3939	18	18
092	5	1	27	4	4
092	5	2	3525	16	16
093	1	1	3	2	2
093	1	2	5771	34	34
093	2	2	1294	8	8
093	3	1	37	4	4
093	3	2	2279	10	10
093	4	2	1268	12	12
094	1	1	10	4	4
094	1	2	1711	6	6
094	2	1	14	4	4
094	2	2	992	4	4
state total			**49523**	**308**	**308**
UTTARANCHAL (05)					
051	1	1	7	4	4
051	1	2	2090	20	20
051	2	1	5	4	4
051	2	2	603	4	4
state total			**2705**	**32**	**32**
WEST BENGAL (19)					
191	1	1	2	2	2
191	1	2	978	8	8
191	2	2	805	8	8
192	1	1	3	2	2
192	1	2	2033	18	18
192	2	2	1363	16	16
193	1	1	310	4	4

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
193	1	2	8883	64	64
193	2	1	643	10	10
193	2	2	6588	58	58
193	3	1	8	4	4
193	3	2	806	4	4
193	4	1	1364	22	22
193	4	2	5052	40	40
193	5	1	311	4	4
193	5	2	1023	8	8
194	1	1	7	4	4
194	1	2	1017	6	6
194	2	1	8	4	4
194	2	2	979	6	6
state total			**32183**	**292**	**292**
ANDAMAN & NICOBAR IS. (35)					
351	1	2	148	16	0
state total			**148**	**16**	**0**
CHANDIGARH (04)					
041	1	1	2	2	2
041	1	2	84	2	2
041	3	1	111	4	4
041	3	2	1305	12	12
state total			**1502**	**20**	**20**
DADRA & NAGAR HAVELI (26)					
261	1	2	28	12	0
state total			**28**	**12**	**0**
DAMAN & DIU (25)					
251	1	2	99	16	16
state total			**99**	**16**	**16**
DELHI (07)					
071	1	1	166	4	8
071	1	2	2305	10	20
071	2	1	61	4	8
071	2	2	729	4	8
071	4	1	413	8	16
071	4	2	13395	114	228

Table 3: stratum/sub-stratum size and allocation for urban sector

state - region	stratum	sub-stratum	sub-stratum size (N_{st})	allocation	
				central sample	state sample
(1)	(2)	(3)	(4)	(5)	(6)
state total			**17069**	**144**	**288**
LAKSHADWEEP (31)					
311	1	2	51	8	0
state total			**51**	**8**	**0**
PONDICHERRY (34)					
341	1	1	20	4	4
341	1	2	222	8	8
341	2	1	119	10	10
341	2	2	450	18	18
state total			**811**	**40**	**40**
ALL-INDIA			**371012**	**3552**	**4074**

Table 4: List of towns with population more than one million

sl. no.	name of town	state/ UT
1	Greater Mumbai	Maharashtra
2	Delhi Municipal Corporation (Urban)	Delhi
3	Kolkata	West Bengal
4	Bangalore	Karnataka
5	Chennai	Tamil Nadu
6	Ahmedabad	Gujarat
7	Hyderabad	Andhra Pradesh
8	Pune	Maharashtra
9	Kanpur	Uttar Pradesh
10	Surat	Gujarat
11	Jaipur	Rajasthan
12	Lucknow	Uttar Pradesh
13	Nagpur	Maharashtra
14	Indore	Madhya Pradesh
15	Bhopal	Madhya Pradesh
16	Ludhiana	Punjab
17	Patna	Bihar
18	Vadodara	Gujarat
19	Thane	Maharashtra
20	Agra	Uttar Pradesh
21	Kalyan-Dombivli	Maharashtra
22	Varanasi	Uttar Pradesh
23	Nashik	Maharashtra
24	Meerut	Uttar Pradesh
25	Faridabad	Haryana
26	Hourah	West Bengal
27	Pimprichinchwad	Maharashtra