***INTEGRATED SAMPLE SURVEY***

The ***Integrated Sample Survey*** Scheme was introduced in the state veterinary department of Assam in 1968-69 along with the state veterinary department of the other states of India for ascertain uniform pattern in the estimation of milk, egg and meat and livestock keeping practices in the state. This has been an essential survey to estimate the quantum of livestock products produced by the state annually and most importantly the extent of contribution being made by the livestock sector to the state domestic products and for the preparation of future plans of the department.

***Coverage and period of the survey****:* The *Integrated Sample Survey i*s carried out in the entire state covering 26 number of districts both in rural and urban areas. The entire survey is carried out in three seasons of the year to study the fluctuations of livestock products. Each of the seasons consists of four months. The period of the seasons are as follows :

Summer season : 1st March to 30th June (122 days)

Rainy season : 1st July to 31st October (123 days)

Winter season : 1st November to 28th /29th February (120/ 121 days)

***Methodology of the survey****:* The methodology of the survey has been a three stage stratified random sampling design which is being adopted as per the guidelines of the ***Govt. of India, Ministry of* *Agriculture, New Delhi***. The methodology of the survey has been revised in the year 2014-15 and it is effectively tried to apply accordingly in the year 2015-16.

The first stage of sampling is village or block. The secondary stage of sampling is house hold in the selected villages and the final stage of sampling is animals in the selected household. A large sample of 15 % of the total villages/ blocks of the state is selected at random and distributed equally among all the three seasons of a year.

*The pattern adopted for selection of household in each round is as follows:*

***1st Round*** :

MILK : Two clusters of two households in each selected villages.( 4 household )

EGG : Two clusters of five households in each selected villages.( 10 household )

MEAT : Two registered / unregistered / butcher houses in each stratum.

***2nd  3rd & 4th Round*** :

MILK : Four clusters of two households in the selected villages.( 8 household )

EGG : Four clusters of five households in the selected villages.( 20 household )

MEAT : Two registered/ unregistered/ butcher houses in each stratum.

**The pattern of selection of animals / poultry in the selected household is as follows:**

MILK : Two animals in milk ( one Cow and one Buffalo or two cows or two

Buffaloes as the case may be) from the selected households.

EGG : All the laying birds in the selected households.

MEAT : The number of animals of each species ,i.e. cattle buffalo, goat, pig, etc in the slaughtered / butcher houses.

This survey comprises of two main parts-- (a) Complete enumeration and (b) Detailed study. In complete enumeration all the livestock and poultry in the selected villages are counted separately for both rural and urban and that too in sub-sample 1 and sub sample 2, to estimate the present population, in milk and milch population, layers etc. The detailed study is conducted to estimate the average yield of cattle, buffalo, goat etc in respect of milk and meat and average yield of layer bird of both fowl and duck for the estimation of egg. Further, the utilization pattern, price and livestock attendant practices etc. are also studied in the detailed studies. The complete enumeration is done in the first month of each of the season while detailed study is done continuously in all the four months of the season and as such in all the seasons of the year and henceforth the survey work of the enumerators goes on working throughout the year.

**Machinery of the Survey** :

The present manpower strength of the Statistical Division of the Department is 53. *Senior Research Officer* at the rank of Deputy Director is head of the scheme followed by 1 post of *Research Officers*, 3 posts of *Statistical Officer*, 4 posts of *Statistical Inspector*, 7 posts of *Sub-Inspector statistics*, 9 posts of *Computor / Statistical Assistant* and 28 posts of *Field Assistant*. However, about 11 nos. of posts are lying vacant in different categories of posts till the preparation of the report. Field Assistants work at the field level in the respective districts doing survey work such as enumeration and detail study; computors tabulate and compile the collected data while Sub Inspectors supervise the Field Assistant and check the tabulated reports. The remaining staff works from the Head Quarter doing timely supervision, analysis, preparation of sample survey report, training to the technical staff, maintaining liaison with the Govt. of India. Apart from the usual work the staff at the H.Q. extend the necessary help in the preparation of Livestock Census and other regular miscellaneous statistical work such as preparing the monthly progress reports, Annual report and any other items entrusted by the Government time to time.

**Prescribed schedules for the survey:**

Following are the prescribed schedule for carrying out the Sample Survey-

**For complete enumeration:**

Village Schedule :1 For general information about the selected village/block.

Village Schedule :2 For listing of households and enumeration of Livestock and

Poultry in selected villages for complete enumeration.

**Detailed study :**

Schedule LPS III For selection of clusters of households for detailed study.

Schedule LPS IV Yield of milk in sample households and attend practices.

Schedule LPS V Egg production and attendant practices

Schedule LPS VI Egg production and attendant practices in commercial Poultry farms.

Schedule LPS VII Yield of meat from slaughter houses/butcher houses.