



# Sampling Plan for Sero-monitoring of Brucellosis in India under National Brucellosis Control Programme Phase-III



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**Control of  
Foot & Mouth  
Disease  
(FMD) and  
Brucellosis**

Outlay of Rs. 13,343 crore to fully control diseases amongst livestock in next 5 years

Vaccination coverage to 30 crore bovines, 20 crore sheep/goat, & 1 crore pigs at intervals of 6 months to treat FMD diseases

100% vaccination coverage to 3.6 crore calves under Brucellosis programme

Provide relief to crores of livestock rearing farmers across the country

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GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE, FISHERIES AND ANIMAL HUSBANDRY

ICAR-NIVEDI

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## **PREFACE**

Bovine brucellosis is one of the important and economically important contagious reproductive diseases of sexually matured livestock and other animals. The total estimated average loss due to brucellosis USD 1357 in cattle and USD 1918 in buffaloes (Singh *et al.*, 2015). Brucellosis is caused by a coccobacillary, microaerophilic, Gram-negative organism of the genus *Brucella*. Different species of *Brucella* are responsible for the reproductive disease of livestock, *Brucella abortus* is the dominant species in cattle. Brucellosis is the most common zoonosis in the world. Considering the damage done by the *Brucella* infection in livestock in terms of a decrease in productivity that impact negatively on development in the economy.

Brucellosis is a zoonosis highly infectious for humans causing a disease often called undulant fever or Malta fever since it was first recognized in Malta during the 1850s. Symptoms in humans include intermittent or irregular fever, headache, weakness, profuse sweating, chills, weight loss, and general aching. Infections of organs including the liver and spleen may also occur. Veterinarians, farmers, and abattoir workers are vulnerable to infection as they handle infected animals and aborted fetuses or placentae. Brucellosis is one of the most easily acquired laboratory infections, and strict safety precautions should be observed when handling cultures and heavily infected samples, such as products of abortion. The disease can also spread to people through the consumption of unpasteurized milk coming from infected animals.

The use of a two-stage sampling scheme has evolved to meet surveillance or monitoring objectives for two reasons. First, the list of frames of animals for randomized sample selection does not typically exist at a regional or national level, but the frame of herds or villages can be developed and maintained more readily. Secondly, the theory and application of sampling within a herd or village is well developed. The purpose of this bulletin is to provide the guidelines for the estimation of the total number of animals to be sampled, the total number of villages (epi units) to be selected, the number of animals within the village to be sampled, and the location of villages for post seromonitoring of bovine brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in India to estimate the unbiased and robust estimate of protection levels of brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in India. I profusely thank Secretary, DARE, and Director General, ICAR and DDG (AS), ICAR for their constant support and guidance in bringing this bulletin.

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## **1. Brucellosis Control Programme: Seromonitoring (Post vaccination)**

Bovine brucellosis is one of the important and economically catastrophic contagious reproductive diseases of sexually matured livestock and other animals. The total estimated loss due to this disease is USD 1357 in cattle and USD 1918 in buffaloes (Singh *et al.*, 2015). Brucellosis is caused by a coccobacillary, microaerophilic, Gram-negative organism of the genus *Brucella*. Different species of *Brucella* are responsible for the reproductive disease of livestock, *Brucella abortus* is the dominant species in cattle. Brucellosis is the most common zoonosis in the world. Considering the damage done by the *Brucella* infection in livestock in terms of a decrease in productivity that impacts negatively on development in the economy.

The disease in animals is characterized by abortions or reproductive failure. While animals typically recover, and will be able to have live offspring following the initial abortion, they may continue to shed the bacteria. Brucellosis is typically spread when the animal aborts or gives birth. High levels of bacteria are found in the birth fluids of an infected animal. The bacteria can survive outside the animal in the environment for several months, particularly in cool moist conditions. They remain infectious to other animals, which become infected by ingesting the bacteria. The bacteria also colonize the udder and contaminate the milk. The disease can also infect animals and humans through cuts in the skin, or through mucous membranes.

Typically, the disease is mild, with the infected animal showing few signs until she aborts. There may be swelling of the testicles in males, and occasionally the bacteria localize in the joints causing arthritis. The importance of Brucellosis is that it causes poor reproductive performance, due to abortions, infertility, retention of placenta, stillbirth, or the birth of weak offspring. It results in huge economic losses to dairy, sheep, goat, and pig farmers.

Brucellosis is a zoonosis highly infectious for humans causing a disease often called undulant fever or Malta fever since it was first recognized in Malta during the 1850s. Symptoms in humans include intermittent or irregular fever, headache, weakness, profuse sweating, chills, weight loss, and general aching. Infections of organs including the liver and spleen may also occur. Veterinarians, farmers, and abattoir workers are vulnerable to infection as they handle infected animals and aborted fetuses or placentae. Brucellosis is one of the most easily acquired laboratory infections, and strict safety precautions should be observed when handling cultures and heavily infected samples, such as products of abortion. The disease can also spread to people through the consumption of unpasteurized milk coming from infected animals.

## **Sero-monitoring of Bovine Brucellosis under Brucella Control Programme (BCP)**

Bovine brucellosis is endemic in almost all the states of India. This disease can be prevented over a period of time by one-time vaccination of all eligible female calves. Brucellosis-Control Programme envisages vaccination of female calves between 4-8 months in all states. This component was implemented since 2010 and central assistance is being provided to States/UTs for mass vaccination of all female calves between 4-8 months (Now 4-8 months) in the areas where the incidence of the disease is high.

Surveillance using serological tests, as well as tests on milk like the milk ring test, can be used for screening and play an important role in campaigns to eliminate the disease. As well as individual animal testing both for trade and for disease control purposes is practiced.

**Target Population:** 4-8 months of female calves (less than 1-year-old female calf population, 20<sup>th</sup> Livestock Census, Department of Animal Husbandry & Dairying under Ministry of Fisheries, Animal Husbandry & Dairying, Govt of India, New Delhi) which excludes the villages/animals of the previous sampling plan.

### **The objective of sero-monitoring of bovine brucellosis in India**

1. To provide the sampling scheme for estimation of the total number of animals to be sampled, the total number of representative villages (epi units) to be selected, the random number of animals within the village to be sampled, and the location of villages for sero-monitoring (Post-vaccination) of bovine brucellosis in 4-8 months of female calves (less than 1-year-old female calf population).

### **Recommended Two-stage Stratified Random Sampling Method**

All form of epidemiological investigations requires a scientific sampling plan for the collection of data on health problems including serum samples in surveillance or monitoring in a specific population. Estimation of the frequency of disease is a prerequisite to establish the disease control program, hence sampling the populations in order to estimate the disease frequency is common task for epidemiologists. In sampling, we ensure that animals are typical of the target population that the estimate of disease frequency is unbiased and precise (low standard error). Simple random sampling, systematic or stratified random samplings are the most commonly used sampling methods in which the animal is sampling unit, provides the precise estimates of disease frequency.

The use of two stage sampling scheme has evolved to meet surveillance or monitoring objectives for two reasons. First, list of frames of animals for randomized sample selection do not typically exist at a regional or national level, but the list frames of herds or villages can be developed and maintained more readily. Second, the theory and application sampling within herd or village is

well developed.

Disease Monitoring refers to a continuous, dynamic process of collecting data about livestock health (target population) and disease events and their determinants in a given animal population over a defined time period. Infectious disease Monitoring of infectious diseases in general and brucellosis, in particular, has become increasingly important for veterinarians, researchers, and departments. Animal Disease monitoring in the target population describes the ongoing efforts directed at assessing the bovine population health and disease status of a given population and the routine collection of information on the disease, productivity and other characteristics possibly related to them in a population. Probability sampling is appropriate for achieving disease monitoring objectives is unfamiliar among disease managers and research scientists because training for most of them is based on classical experimental design in which control, manipulation, and replication are cornerstones.

The monitoring and evaluation framework shows how animal health inputs and processes (livestock health workforce and infrastructure) are reflected in outputs (eg. Interventions and available services) that in turn are reflected in outcomes (eg. Coverage) and impact (morbidity and mortality). The added value of the framework is that it brings together indicators and sources across the resulting chain in its entity i.e from Inputs/process, Outputs, outcomes to impacts. It is designed to address monitoring and evaluation needs for different users and multiple purposes, including

- 1) Monitoring of program inputs, processes, and results, required for the management of target population health system investments
- 2) Health system performance assessment as the key-for country decision-making processes
- 3) Evaluating the results of health reform investments and identifying which approaches work best.

Sample surveys mostly rely on probability sampling to choose sample units e.g. Small areas or individuals, for observation from a population of interest. Probability sampling is most often used when the objective is to the estimation of population protection levels, prevalence, etc., In probability sampling, a well-defined rule or algorithm is invoked to randomly select a sample of units for observation from the list of all possible sample units (Sampling frame) that conceptually represent the population of Interest. The selection algorithms/rule and sampling frame allow us to calculate the probability that a sampling unit is included in the sample and derive the estimators for a specific sample design. Because of the selection probabilities are known, valid statistical properties of estimators can be derived, which provide the basis for evaluating the scientific credibility of the estimates. Estimation of the frequency of disease/basic reproduction number/protection levels is a prerequisite to establishing the disease control program, hence sampling the populations in order to estimate the disease frequency/Basic reproduction number is a common task for epidemiologists. In sampling, we ensure that animals are typical of the target population and that the estimate of disease frequency/basic reproduction number is unbiased and



precise (low standard error). Simple random sampling, systematic or stratified random samplings are the most commonly used sampling methods in which the animal is sampling unit, provides the precise estimates of disease frequency.

Two -stage sampling plan is form of epidemiological investigations requires the scientific sampling for collection of data on health problems includes serum samples in surveillance or monitoring in a specific population. In this sampling plan, the first sampling stage involves the selection of predetermined number of clusters (Districts, Blocks or villages), the clusters are mutually exclusive sub-population, most often constructed from recognized administrative boundaries with the probability proportional population size. In the second stage, animals are selected from each cluster in the field based on random walk method, which identify the center of the cluster or another easily distinguishable feature such as main street, and selecting a random direction to walk, thus drawing the sample transect across the cluster.

The input requirements of sampling plan were (1). 100- % of protection level has been used with conservative estimate of minimum 80% protections in the 4-8 months of female calves (less than 1-year-old female calf population) in India which excludes the villages and animals included in the previous plan, after the intervention (2) cluster or village level protection level is adjusted to the size of population varying from 10% to 30% (3) sensitivity of 90% and specificity of 90% of diagnostic tests and 4. 95% for Confidence Interval /system confidence. Two -stage stratified random sampling plan was generated using in-house developed epi-calculator ([https://nivedi.res.in/Nadres\\_v2/Epical/stratified/random\\_sampling.php](https://nivedi.res.in/Nadres_v2/Epical/stratified/random_sampling.php)). Whereas state and districts within each state were chosen based on population based criteria (Probability proportional to population size), blocks were randomly selected associated with number of farms/villages and samples per farm. The sampling plan will provide the guidelines for selecting villages/farms within village and its location like block, district and state level information along with livestock population, number of animals to be sampled within village/Farms and proportion of 4-8 months of female calves (less than 1-year-old female calf population) to be sampled in each selected village. The summary of sampling plan generated using two-stage stratified random sampling scheme is presented in Table 1.

Table 1. Sampling plan generated using a two-stage stratified random sampling method for Seromonitoring (Post vaccination) of Brucellosis in India

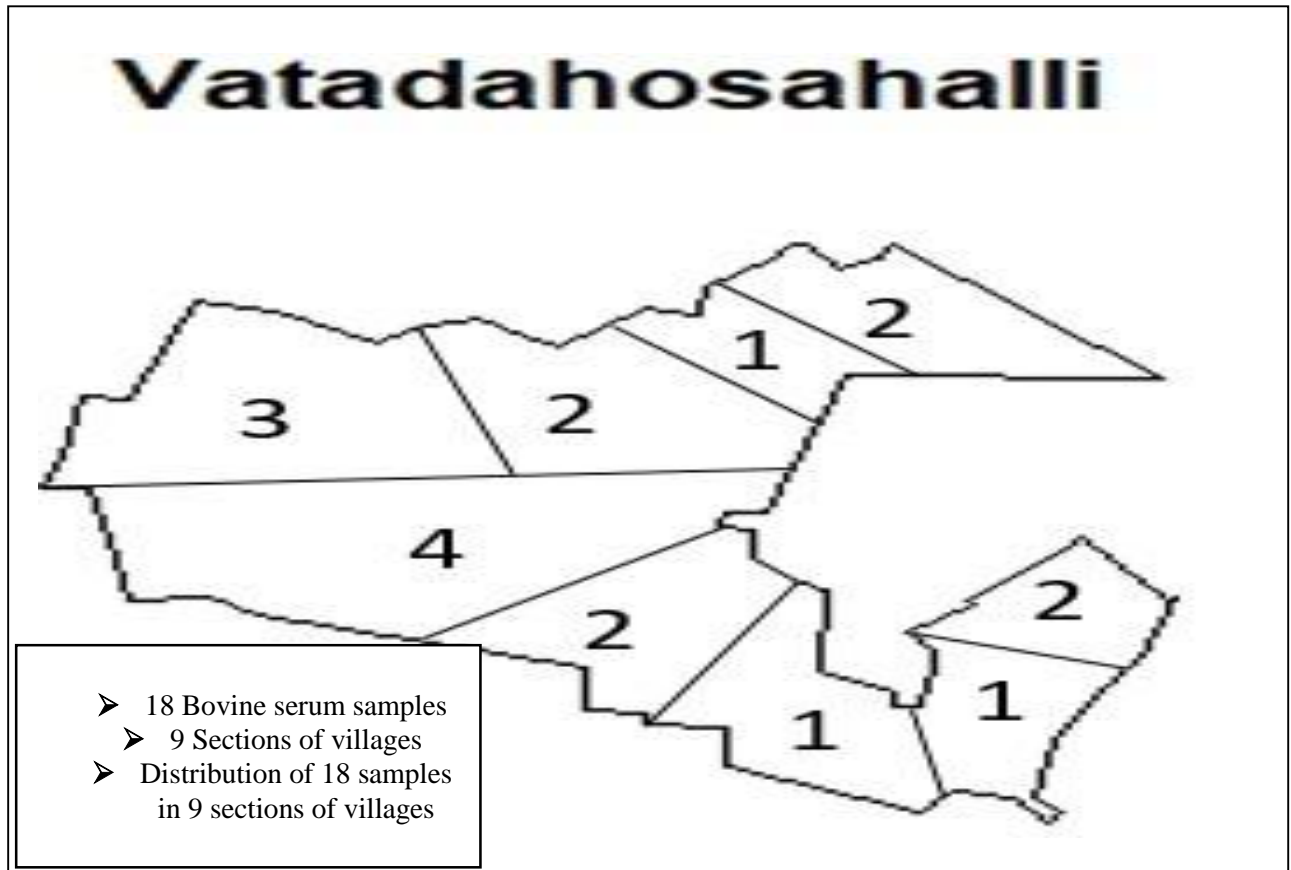
Sl. No	State	No of Districts	No of Blocks	Total Bovine_Female under 1 year	No Female calves are to be sampled	AverageNo of Samples Per Districts
1	Andaman & Nicobar	03	11	3151	589	196
2	Andhra Pradesh	12	127	1024206	1794	150
3	Arunachal Pradesh	17	55	46890	810	48
4	Assam	33	91	1802146	1950	59
5	Bihar	38	150	2257989	2145	56
6	Chandigarh	1	1	2744	193	193
7	Chhattisgarh	27	74	548844	1586	59
8	Dadra & Nagar Haveli and Daman & Diu	3	4	4998	195	65
9	Delhi	11	20	13413	334	30
10	Goa	2	17	5889	916	458
11	Gujarat	32	101	1252343	1794	56
12	Haryana	22	57	459671	1378	63
13	Himachal Pradesh	12	58	260449	1081	90
14	Jammu and Kashmir	20	60	457444	2052	103
15	Jharkhand	24	97	979928	1539	64
16	Karnataka	30	96	1095891	1651	55
17	Kerala	14	52	299714	1020	73
18	Ladakh	02	08	5944	349	175
19	Madhya Pradesh	51	116	2077712	1781	35
20	Maharashtra	35	104	1147365	1435	41
21	Manipur	4	34	38322	1381	345
22	Meghalaya	11	35	98230	978	89
23	Mizoram	08	32	3760	733	92
24	Nagaland	11	52	6539	1349	123
25	Odisha	30	95	941675	1217	41
26	Puducherry	04	10	1297	803	201

27	Punjab	22	59	533282	1365	62
28	Rajasthan	33	72	2223388	988	30
29	Sikkim	04	16	17097	1288	322
30	Tamilnadu	32	88	1772896	1638	51
31	Telangana	31	120	502729	1794	58
32	Tripura	08	39	127714	1183	148
33	Uttarakhand	13	61	348261	1191	92
34	Uttar Pradesh	75	169	3648320	4104	55
35	West Bengal	22	110	2616878	1794	82
	<b>TOTAL</b>	<b>697</b>	<b>2291</b>	<b>26627119</b>	<b>46398</b>	<b>3860</b>

Note: Female calves between 4-8 months of age are to be sampled for sero-Monitoring (Post-vaccination) of brucellosis in a selected village  
\*20th LIVESTOCK CENSUS REPORT, DAHD, GOI, NEW DELHI

## Sampling at village level:

In a given village under block and district, hypothetically divide the entire village into 4-9 sections (as shown below) and chose randomly the number animals as guided in the sampling plan In a Village named Vatadahosahalli (Block: Gauribidanur District: Chikkaballapur) in Karnataka, a total of 18 bovine serum samples to be collected as shown below.



## Collection and transport of serum samples

- Serum should be collected using a sterile needle and syringe
- At least 2 ml of serum should be submitted to the testing laboratory and for that 4-8 ml whole blood needs to be collected without anticoagulant.
- The blood is usually collected from the jugular vein
- After collection, the sample should be allowed to stand in a cool area, out of direct sunlight for at least 15 minutes to allow clot formation
- Serum should be separated before submission to the laboratory.
- The sample should be centrifuged or, if this is not available, stand the sample in an upright position overnight in a cool box or refrigerator
- Place serum into a plain, sterile tube and send to the laboratory under cool condition
- If dispatch to a laboratory is delayed, serum samples should be frozen and stored at -20° C
- Samples should be accompanied by proper epidemiological data sheet

**1. Brucellosis Seromonitoring Reporting Format:**

State	Name of Testing center	District	Vaccine supplier	Vaccine Name	Batch code	NIVEDI Plan (Samples to be collected)	Sample District	Taluk	Village	Date of vaccination	Date of sample collection	No of sera collected from cattle calf	No of cattle sero positive	No of sera collected from buffalo calf	No of buffalo sero positive	Total samples tested	Percent positivity

## 2. Standard Disinfectants for Brucella Control:

<b>Physical Method of Disinfection</b>	<b>Materials are to be disinfected before disposal by deep burial or any other suitable method</b>
Moist heat of 121°C (250°F) 15 minutes	Syringes, needles, gloves, masks, and vials
Dry heat of 320-338°F (160-170°C) 60 minutes	Needles and used vaccine vials
Boiling for 10 minutes	Syringes, needles and used vaccine vials

<b>Chemical Method of Disinfection</b>	<b>Materials to be disinfected</b>	<b>Time of Exposure</b>	<b>Availability</b>
70% Ethanol	Cleaning Goggles	Wipe with sterile cloth or tissue paper	Bharat Scientific world, Karnataka Mobile: 08042962599
95% Ethanol	Syringes, needles, gloves, masks, used vaccine vials	Immersion of all these materials before disposal by deep burial or any other suitable method	Bharat Scientific world, Karnataka Mobile: 08042962599
1% NaOH			Helios Impex, Seshadripuram, Karnataka Mobile: 08047024059
5% Phenol			Padmavathi Enterprises, Karnataka Mobile: 08048552552
1-2% formaldehyde			Pawar Chemicals, Karnataka Mobile: 09980096160
5% sodium hypochlorite			Johnson Fine Chemicals, Karnataka Mobile: 08048971926

### 3. SOP for collection and transport of serum

#### I. Collection of blood

(a) **Collection of blood using vacutainer** (If the person is comfortable with collecting blood directly with vacutainer) (Vacutainer suitable for serum collection is **red capped**)



1. Restrain the animal for blood collection.
2. Clean the area of the jugular vein with 70% alcohol.
3. Unpack the vacutainer needle and insert it into the jugular vein.
4. Insert the vacutainer into the back of the needle (rubber side) and adjust for the flow of blood.
5. Collect 5-6 ml of blood from each animal.
6. Ensure while collection, the needle does not come out of the vein/skin. If it comes out, the vacuum of the vacutainer will be lost and blood will not get collected in the same vacutainer.
7. After the collection, remove the vacutainer along with the needle, and separate out the needle.
8. Pack the needle in a respective pack from which it was taken out and discard following the biosafety protocol in the biohazard bag.
9. Label the vacutainer with blood and keep it erect for 30 minutes.

(b) **Collection of blood using a syringe and transferring to a vacutainer** (If the person is not comfortable with collecting blood directly with a vacutainer)

1. Restrain the animal for blood collection.
2. Clean the area of the jugular vein with 70 % alcohol
3. Unpack the sterile 10 ml syringe, fix the needle tightly, insert it into the jugular vein, and adjust for the flow of blood.
4. After collecting 5-6 ml of blood withdraw the syringe along with the needle.
5. Remove the cap of the vacutainer, remove the needle from the syringe and pour the blood from syringe into the vacutainer and close the vacutainer with the cap.
6. Label the vacutainer with blood with the ear tag number of the animal and keep it erect for 30 minutes.

7. Syringe along with the needle closed with a cap should be discarded following biosafety protocol in the biohazard bag.

## II. Processing of blood sample to separate serum

1. Collected blood in a vacutainer either following protocol I(a) or I(b) should be allowed to stand in a cool area, for at least 15-30 minutes for clot formation. Avoid direct sunlight.
2. After collection, all the samples should be brought to the laboratory/veterinary dispensary and kept in a refrigerator (or a cool place) in an erect position overnight for better serum separation.
3. For effective separation, it can be centrifuged at 1500-2000 rpm for 10 minutes.
4. After separation, 1.5 ml of the clear serum is separated into a sterile 1.8 ml cryovial in a biosafety cabinet and labeled with an animal ear tag number.



Sterile vial



5. Serum samples should be stored in the freezer component of the refrigerator or 20°C or -80 °C till transported.
6. Vacutainer along with clotted blood to be discarded following biosafety protocol in the biohazard bag.

### Note:

*Each needle, syringe, vacutainer, cryovial should be separate for each animal/serum sample and at no point mixing or using needle, syringe, vacutainer, cryovial for more than one animal sample is allowed. In case there is problem with syringe, needle or vacutainer, it is to be discarded and not to be used for the next animal.*



### III. Transport of serum samples

1. Quality cryovials to be used for transport. To avoid leakage while transport, cryovial cap along with 1/4<sup>th</sup> part of the vial may be covered tightly with parafilm.
2. The cryovials to be ensured that labeling is proper and does not get tampered while transport (Labeling with permanent marker on the vial is preferred).
3. Cryovials should be tightly packed in a polythene cover (50 or 100 samples each) and the covers are also to be labeled properly.
4. The polythene covers should be folded and tied with rubber bands properly ensuring no visible space inside.
5. Further all the polythene covers should be arranged tightly in an appropriate carton box (in erect position as far as possible) with proper packing of **icepacks in between** (to ensure maintenance of refrigeration temperature).
6. The details about the samples in the prescribed format should be put in a separate polythene cover and to be transported along with the samples in the carton box.
7. The carton box to be sealed with Cellophane/brown tape.
8. The carton box is also to be labeled.
9. Further the carton box is tightly wrapped with a polypropylene sheet or bag and tied tightly.
10. With permanent marker “**From**” address and “**To**” address to be written completely along with a mobile number.
11. Also “**Handle with care**” label to be put along with the “**Top**” and “**Bottom**” of the parcel maybe marked to ensure an upright position while transport.
12. Ensure for fastest transport mode of DTDC or professional courier services.

## 5. Details on post-vaccination side effects/death

S.No.

Date of investigation:

Name of investigation officer:

Designation and address:

### I. Farmer details

S.No	Particulars	Details
1	Name of the farmer	
2	Address	
3	Village	
4	Taluk	
5	District	
6	State	
7	Mobile number	

## II. Farm details

### 1. Cattle

<b>Details</b>	<b>Cow</b>	<b>Heifer</b>	<b>Female calves</b>	<b>Bull</b>	<b>Bullock</b>	<b>Male calves</b>
<b>Numbers</b>						

### 2. Buffalo

<b>Details</b>	<b>Cow</b>	<b>Heifer</b>	<b>Female calves</b>	<b>Bull</b>	<b>Bullock</b>	<b>Male calves</b>
<b>Numbers</b>						

### III. Deceased animal details

S.No	Particulars	Details
1	Tag number	
2	Identification details	
3	Species (Cattle/Buffalo)	
4	Breed	
5	Age (in months)	
6	Sex	
7	General health status of animal	
8	Deworming status of animal	
9	Any anaphylaxis observed during vaccination	
10	Symptoms observed during death	
11	Date and time of death	
12	Any evidence for underlying disease prior to vaccination	
13	Any evidence for other diseases after vaccination	
14	Duration between vaccination and death	

#### IV. Vaccine details

S.No	Particulars	Details
1	Name of the vaccine	
2	Name of the manufacturer	
3	Batch Number	
4	Date of Manufacturing	
5	Date of Expiry	
6	Packing details ( 10 dose/25 dose/50 dose)	

#### V. Vaccination details

##### i. For deceased animal

S.No	Particulars	Details
1	Date and time of vaccination	
2	Place of vaccination	
3	Dose of the vaccine	
4	Route of administration	
5	Site of administration	

**ii. For other animals**

<b>S.No</b>	<b>Particulars</b>	<b>Details</b>
1	Number of animals vaccinated with same vial	
2	Any abnormalities observed with other animals vaccinated with same vial	
3	Any deaths observed with other animals vaccinated with same vial	
4	If yes, how many?	

**VI. Post-mortem examination (Please attach post-mortem examination report)**

**i. Date and time of post-mortem examination:**

**ii. Brief Post mortem findings:**

**VII. Details of samples sent for investigation**

S.No	Type of samples collected	Packing details of the samples	The name of the Institution sample is sent	Any other relevant information
1				
2				
3				
4				
5				
6				

**VIII. Other relevant information if any**

(Veterinary institution details with seal and signature)

## **6. Precautions against Veterinary Vaccine Exposure:**

- Personnel administering *B. abortus* S19 vaccinations should wear proper personnel protective equipment (PPE), including gloves and eye protection.
- Proper animal restraint should be used to minimize needle sticks or conjunctival splashes.
- Quantitative serological monitoring should be emphasized to detect a *B. abortus* S19 infection among veterinary workers, as patients may present with mild clinical symptoms or as asymptomatic.

### **Treatments Recommended:**

- Antibiotic prophylaxis with doxycycline (100 mg twice daily for 21-24 days).
- Rifampin (600 mg once daily for 21 days).

\*Specifics on the regimen and dose should be established in consultation with the person's health care provider.

### **Contact Details:**

- 1. For SOP on Brucellosis Dr. Rajeswari Shome - 9480520541**
- 2. For the Sampling Plan Dr. K.P. Suresh - 7892791174**



**BRU/SEROMON/NIVEDI/Andaman And Nicobar Islands\_1/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 1 + (under\_1year\_Fbovine) = 190

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.048

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 68

Total No of Animals to be Sampled = 589 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Nicobars	Nancowry	Pilpilow	7	0	7	7	7	0
Nicobars	Nancowry	Mildera	8	0	8	7	7	0
Nicobars	Car Nicobar	Kinyuka	13	0	13	9	9	0
Nicobars	Car Nicobar	Sawai	19	0	19	10	10	0
Nicobars	Great Nicobar	Govinda Nagar	46	4	50	12	11	1
Nicobars	Great Nicobar	7 Km Farm	105	0	105	13	13	0
North And Middle Andaman	Rangat	Vishnupur (Rv)	2	0	2	2	2	0
North And Middle Andaman	Mayabunder	Ganesh Nagar I & II (Efa)	2	0	2	2	2	0
North And Middle Andaman	Diglipur	Laxmipur (Efa)	2	0	2	2	2	0
North And Middle Andaman	Rangat	Raglachang (Nayadera) (Fc)	3	0	3	3	3	0
North And Middle Andaman	Mayabunder	Dampur (Rv)	4	0	4	4	4	0
North And Middle Andaman	Mayabunder	East of Karmatang X	4	0	4	4	4	0
North And Middle Andaman	Mayabunder	Karmatang X (Efa) Incl.Bihari Plot	6	0	6	6	6	0
North And Middle Andaman	Rangat	South Creek (Efa, Fc & Apwdc)	6	0	6	6	6	0
North And Middle Andaman	Diglipur	Smith (Efa)	6	0	6	6	6	0
North And Middle Andaman	Diglipur	Coffe Dera (Efa)	7	0	7	7	7	0
North And Middle Andaman	Diglipur	Amber Chad (Efa)	7	0	7	7	7	0
North And Middle Andaman	Rangat	Yerailjig (Rv)	8	0	8	7	7	0
North And Middle Andaman	Rangat	Gol Pahar (Efa)	8	0	8	7	7	0
North And Middle Andaman	Rangat	Bakulala (Ct)	8	0	8	7	7	0
North And Middle Andaman	Mayabunder	Jaipur (Rv)	8	0	8	7	7	0
North And Middle Andaman	Rangat	Amkunj (Rv)	9	0	9	8	8	0
North And Middle Andaman	Diglipur	Haridas Kattai (Efa)	11	0	11	8	8	0
North And Middle Andaman	Diglipur	Tal Bagan (Efa)	11	0	11	8	8	0
North And Middle Andaman	Diglipur	Jagannath Dera (Rv)	11	0	11	8	8	0
North And Middle Andaman	Mayabunder	Mayabunder (Rv)	12	0	12	9	9	0
North And Middle Andaman	Mayabunder	Birsa Nagar (Efa)	12	0	12	9	9	0
North And Middle Andaman	Diglipur	Ganna Dabla (Efa)	14	0	14	9	9	0
North And Middle Andaman	Mayabunder	Chainpur (Rv)	16	0	16	10	10	0
North And Middle Andaman	Diglipur	Burmachad (Efa)	16	0	16	10	10	0
North And Middle Andaman	Diglipur	Hara Tikry (Efa)	17	0	17	10	10	0
North And Middle Andaman	Rangat	Santanu (Rv)	17	0	17	10	10	0
North And Middle Andaman	Rangat	Bakulala Part I	19	0	19	10	10	0
North And Middle Andaman	Diglipur	Gandhi Nagar (Forest Beat)	19	0	19	10	10	0
North And Middle Andaman	Diglipur	Sagar Dweep (Rv)	20	0	20	10	10	0
North And Middle Andaman	Diglipur	Radha Nagar (Efa)	21	0	21	10	10	0
North And Middle Andaman	Diglipur	Srinagar (Efa)	24	0	24	11	11	0
North And Middle Andaman	Rangat	Uttara (Rv)	28	0	28	11	11	0
North And Middle Andaman	Mayabunder	Lucknow (Rv)	30	0	30	11	11	0
North And Middle Andaman	Rangat	Kaushalyanagar (Rv)	31	0	31	11	11	0
North And Middle Andaman	Diglipur	Sitanagar (Rv)	66	0	66	12	12	0
North And Middle Andaman	Diglipur	Ramakrishnagram (Rv)	89	0	89	12	12	0
South Andamans	Ferrargunj	Mile Tilek (Arf)	2	0	2	2	2	0
South Andamans	Ferrargunj	Coffee Plot	3	0	3	3	3	0
South Andamans	Ferrargunj	Lohabarrack (WIs)	5	0	5	5	5	0
South Andamans	Ferrargunj	Govindapuram (Rv)	7	0	7	7	7	0
South Andamans	Ferrargunj	Pongi Balu (Fc) & Bada Balu (Efa)	8	0	8	7	7	0
South Andamans	Ferrargunj	Manglutan Part II	8	0	8	7	7	0
South Andamans	Port Blair	Bada Nallaha/Bada Balu (Efa)	10	0	10	8	8	0
South Andamans	Ferrargunj	Wright Myo (Rv)	10	0	10	8	8	0
South Andamans	Port Blair	Port Blair (M CI) - Ward No.9	12	0	12	9	9	0
South Andamans	Ferrargunj	Badmash Pahar (Rv)	15	0	15	9	9	0
South Andamans	Ferrargunj	Dundas Point (Rv)	15	0	15	9	9	0
South Andamans	Ferrargunj	Homfreygunj (Rv)	17	0	17	10	10	0
South Andamans	Ferrargunj	Kadakachang (Rv)	19	0	19	10	10	0
South Andamans	Ferrargunj	Bambooflat	20	0	20	10	10	0
South Andamans	Ferrargunj	Manpur (Rv)	25	0	25	11	11	0
South Andamans	Ferrargunj	Tusnabad (Rv)	26	0	26	11	11	0
South Andamans	Ferrargunj	Maymyo (Rv)	27	0	27	11	11	0
South Andamans	Ferrargunj	Mannarghat (Rv)	40	0	40	12	12	0

South Andamans	Port Blair	Port Blair (M CI) - Ward No.17	44	1	45	12	12	0
South Andamans	Port Blair	Port Blair (M CI) - Ward No.18	42	5	47	12	11	1
South Andamans	Little Andaman	Vivekanandapuram (Rv)	56	0	56	12	12	0
South Andamans	Port Blair	Port Blair (M CI)- Ward No. 21	58	1	59	12	12	0
South Andamans	Port Blair	Bimilitan (Rv) & Kodiyahat	71	0	71	12	12	0
South Andamans	Ferrargunj	Caddlegunj (Rv) (Incl. Sema Pahar	77	0	77	12	12	0
South Andamans	Little Andaman	Hut Bay (Rv)	92	0	92	13	13	0
South Andamans	Little Andaman	Ramakrishnapur (Rv)	92	0	92	13	13	0
		<b>Total</b>	<b>1573</b>	<b>11</b>	<b>1584</b>	<b>589</b>	<b>587</b>	<b>2</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

**Abbreviations:**

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 68  
Reserved Random Villages 0  
Total Samples 589

**BRU/SEROMON/NIVEDI/Andhra Pradesh\_2/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 150 + (under\_1year\_Fbovine) = 1281

Animal Level Prevalance= 0.2 (Based on IInd phase data)

Cluster Level Prevalance = 0.024

Sensitivity of the test used = 0.9

Total No of Villages (Clusters) Selected = 138 (+7 Reserved villages)

Total No of Animals to be Sampled = 1794

DISTRICT_NAME(a)	TABSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo( e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Anantapur	Gorantla	Mandalapalle	209	0	209	13	13	0
Anantapur	Tadimari	Tadimari	218	0	218	13	13	0
Anantapur	Bathalapalle	Apparacheruvu	245	0	245	13	13	0
Anantapur	Nallacheruvu	Jogannapeta	294	0	294	13	13	0
Anantapur	Vidapanakal	Vidapanakal	296	0	296	13	13	0
Anantapur	Brahmasamudram	Yerrakondapuram	137	218	355	13	5	8
Anantapur	Rolla	Ratnagiri	335	164	499	13	9	4
Anantapur	Tanakal	Kokkanti	528	0	528	13	13	0
Anantapur	Atmakur	Talupuru	767	0	767	13	13	0
Chittoor	Ramasamudram	Nariganipalle	175	0	175	13	13	0
Chittoor	Thamballapalle	Gopidinne	197	0	197	13	13	0
Chittoor	Narayanavanam	Thumber	206	0	206	13	13	0
Chittoor	Bangarupalem	Gundla Kattamanchi	223	0	223	13	13	0
Chittoor	Tirupati (Rural)	Thanapalle	184	67	251	13	10	3
Chittoor*	Yerravaripalem	Ushikayalapenta	253	0	253	13	13	0
Chittoor	Puthalapattu	Puthalapattu	255	0	255	13	13	0
Chittoor	Valmikipuram	Budidavedu	265	0	265	13	13	0
Chittoor	Srikalahasti	Thondamanadu	336	0	336	13	13	0
Chittoor	Yerravaripalem	Nerabytu	366	0	366	13	13	0
Chittoor	Gangavararam	Gandrojupalle	380	0	380	13	13	0
Chittoor	Gangadhara Nellore	Nellipalle	474	0	474	13	13	0
Chittoor	Nimmanapalle	Nimmanapalle	515	0	515	13	13	0
Chittoor	Nimmanapalle	Vengamvaripalle	517	0	517	13	13	0
East Godavari	Amalapuram	Samansa	170	0	170	13	13	0
East Godavari	Chintur	Yedugurallapalle	184	0	184	13	13	0
East Godavari	Samalkota	Vetiapalem	186	0	186	13	13	0
East Godavari	Kajuluru	Duggururu	234	0	234	13	13	0
East Godavari	Rajanagaram	Patha Thungapadu	37	211	248	13	2	11
East Godavari	Sakhinetipalle	Sakhinetipalle	285	0	285	13	13	0
East Godavari	Chintur	Kuyuguru	317	0	317	13	13	0
East Godavari	Rowthulapudi	Rowthulapudi	63	300	363	13	2	11
East Godavari	Ambajipeta	Gangalakurru	389	0	389	13	13	0
East Godavari	Gandepalle	Pro. Ragampeta	40	417	457	13	1	12
East Godavari	Chintur	Chintur	476	0	476	13	13	0
East Godavari	Korukonda	Dosakayalipalle	147	537	684	13	3	10
Guntur	Narasaraopeta	Narasaraopet (M) - Ward No.28	14	164	178	13	1	12
Guntur	Ponnur	Kondamudi	1	241	242	13	0	13
Guntur	Guntur	Gorantla (OG) (Part) WARD NO.-0029	1	267	268	13	0	13
Guntur	Guntur	Guntur (M Corp.) - Ward No.5	9	267	276	13	0	13
Guntur	Macherla	Koppunur	329	0	329	13	13	0
Guntur	Bapatla	Bapatla (M) - Ward No.3	1	372	373	13	0	13
Guntur	Vatticherukuru	Komepadu	17	555	572	13	0	13
Guntur*	Ipur	Chittapuram	0	640	640	13	0	13
Krishna	Agiripalle	Vattigudipadu	28	137	165	13	2	11
Krishna	Mylavaram	Vedurubeedem	15	174	189	13	1	12
Krishna	Nuzvid	Mokhasa Narasannapalem	14	192	206	13	1	12
Krishna	Pedaparupudi	Elamaru	21	188	209	13	1	12
Krishna	Machilipatnam	Buddalapalem	4	214	218	13	0	13
Krishna	Gunnavaram	Buddavaram	24	197	221	13	1	12
Krishna	Pedana	Pedana (NP) - Ward No.1	193	111	304	13	8	5
Krishna	Vissannapeta	Vemireddipalle	35	407	442	13	1	12
Krishna	Ghantasala	Srikakulam	48	441	489	13	1	12
Krishna	Machilipatnam	Machilipatnam (M) - Ward No.17	96	399	495	13	3	10
Kurnool	Yemmiganur	Kandanathi	163	0	163	13	13	0
Kurnool	Allagadda	Allagadda (M) WARD NO.-0020	41	140	181	13	3	10
Kurnool	Kurnool	Kurnool Ward No. 17	125	84	209	13	8	5
Kurnool	Pedda Kadubur	Jalvadi	212	0	212	13	13	0
Kurnool	Owk	Vajragiri	241	0	241	13	13	0
Kurnool	Peapally	Peapally	258	0	258	13	13	0
Kurnool	Dornipadu	W.Govindine	11	282	293	13	0	13
Kurnool	Gonegandla	Thippanur	325	0	325	13	13	0

Kurnool	Pattikonda	Pandikoma	157	215	372	13	5	8
Kurnool	Allagadda	Ahobilam	275	139	414	13	9	4
Prakasam	Ongole	Ongole (M) - Ward No.45	0	176	176	13	0	13
Prakasam	Santhanuthala Padu	Bhatla Machavaram	4	186	190	13	0	13
Prakasam	Ongole	Ongole (M) - Ward No.41	6	220	226	13	0	13
Prakasam	Ongole	Ongole (M) - Ward No.8	2	234	236	13	0	13
Prakasam	Addanki	Addanki-Ward no-7	16	260	276	13	1	12
Prakasam	Naguluppala Padu	Nidamaanur	31	285	316	13	1	12
Prakasam	Chimakurthi	Palla Malli	326	0	326	13	13	0
Prakasam	Konakanamitla	Gotlagattu	33	348	381	13	1	12
Prakasam	Tripuranthakam	Tripuranthakam	11	376	387	13	0	13
Prakasam	Kondapi	Vennuru	17	614	631	13	0	13
Spsr Nellore*	Doravarisatram	Yekollu	28	136	164	13	2	11
Spsr Nellore	Chittamur	Yellasiri	188	0	188	13	13	0
Spsr Nellore	Nellore	Kakupalle-I	14	199	213	13	1	12
Spsr Nellore	Chittamur	Molakalapudi	243	0	243	13	13	0
Spsr Nellore	Marripadu	Chinamachanur	79	182	261	13	4	9
Spsr Nellore	Venkatachalam	Epuru Bit - II (G V R Palem)	314	0	314	13	13	0
Spsr Nellore	Buchiredipalem	Munulapudi	0	358	358	13	0	13
Spsr Nellore	Nellore	Nellore (M) - Ward No.12	27	349	376	13	1	12
Spsr Nellore	Vidavahur	Varini	13	445	458	13	0	13
Spsr Nellore	Kondapuram	Saipeta	0	1238	1238	13	0	13
Srikakulam	Jalumuru	Allada	155	0	155	13	13	0
Srikakulam	Regidi Amadalavalasa	Parampetta	206	0	206	13	13	0
Srikakulam	Gara	Kothurusyigam	209	0	209	13	13	0
Srikakulam	Eicherla	Koyyam	223	0	223	13	13	0
Srikakulam	Sompeta	Baruva	252	0	252	13	13	0
Srikakulam	Kothuru	Kurigam	281	6	287	13	13	0
Srikakulam	Santhabommali	Santhabommali	294	0	294	13	13	0
Srikakulam	Regidi Amadalavalasa	Burada	313	0	313	13	13	0
Srikakulam	Meliaputti	Meliaputti	320	0	320	13	13	0
Srikakulam	Sarubujili	Shalantri	324	0	324	13	13	0
Srikakulam	Kotabommali	Jyannapeta	335	0	335	13	13	0
Srikakulam	Ichchapuram	Ichchapuram (NP) - Ward No.4	178	174	352	13	7	6
Visakhapatnam*	Managapaka	Vadrapalle	155	0	155	13	13	0
Visakhapatnam	Peda Bayalu	Injari	159	0	159	13	13	0
Visakhapatnam	K.Kotapadu	Arle	95	86	181	13	7	6
Visakhapatnam	Nathavaram	Golugondapeta	15	167	182	13	1	12
Visakhapatnam	Padmanabham	Potnuru	189	0	189	13	13	0
Visakhapatnam	Chodavaram	Pakirsahebpetta	101	90	191	13	7	6
Visakhapatnam	Dumbriguda	Bitragonda	207	0	207	13	13	0
Visakhapatnam	S.Rayavaram	Darlapudi	210	0	210	13	13	0
Visakhapatnam	Yelamanchili	Yelamanchili M Ward no 3	116	103	219	13	7	6
Visakhapatnam	Chintapalle	Pothurajugumma	228	0	228	13	13	0
Visakhapatnam	Anakapalle	Kundram	242	0	242	13	13	0
Visakhapatnam	Sabbavaram	Antakapalle	246	0	246	13	13	0
Visakhapatnam	Makavarapalem	Burugupalem	247	0	247	13	13	0
Visakhapatnam	Kotauratla	Chinaboddepalle	149	135	284	13	7	6
Visakhapatnam*	Rambilli	Mamidivada	292	0	292	13	13	0
Visakhapatnam	Yelamanchili	Regupalem	301	0	301	13	13	0
Visakhapatnam	Makavarapalem	Tootipala	314	0	314	13	13	0
Visakhapatnam	Visakhapatnam	Visakhapatnam (M Corp.) - Ward No.56	125	206	331	13	5	8
Visakhapatnam	Koyyuru	Mattam Bhimavaram	347	0	347	13	13	0
Visakhapatnam	Payakaraopeta	Payakaraopeta (C)	399	0	399	13	13	0
Visakhapatnam	Payakaraopeta	Mangavaram	611	126	737	13	11	2
Visakhapatnam	Gudem Korba Veedhi	Galkonda	817	0	817	13	13	0
Vizianagaram	Pachipenta	Kesali	154	0	154	13	13	0
Vizianagaram	Balijipeta	Barli	173	0	173	13	13	0
Vizianagaram	Badangi	Paltheru	176	0	176	13	13	0
Vizianagaram	Merakamudidam	Merakamudidam	204	0	204	13	13	0
Vizianagaram	Mentada	Jakkuva	208	1	209	13	13	0
Vizianagaram	Parvathipuram	Chinabondapalle	215	0	215	13	13	0
Vizianagaram	Seethanagaram	Nidagalu	198	51	249	13	10	3
Vizianagaram	Balijipeta	Palagara	291	0	291	13	13	0
Vizianagaram	Gantyada	Lakkidam	322	0	322	13	13	0
Vizianagaram	Pusapatirega	Kovvada Agraharam	340	0	340	13	13	0
Vizianagaram	Ramabhadrapuram	Kottakki	407	0	407	13	13	0
Vizianagaram*	Balijipeta	Nookulavada	423	0	423	13	13	0
West Godavari	Akividu	Chinakavaram	36	118	154	13	3	10
West Godavari	Penugonda	Kothalaparru	19	164	183	13	1	12
West Godavari	Buttayagudem	Antarvedigudem	273	0	273	13	13	0

West Godavari	Kukunoor	Kukunoor	362	0	362	13	13	0
West Godavari	Nallajerla	Dubacherla	378	0	378	13	13	0
West Godavari	Kamavarapukota	Kamavarapukota	102	472	574	13	2	11
West Godavari	Tadepalligudem	Kunchanapalle (Part)	148	493	641	13	3	10
West Godavari	Kamavarapukota	Tadikalapudi	127	586	713	13	2	11
Y.S.R. *	Proddatur	Proddatur (M) - Ward No.1	6	159	165	13	0	13
Y.S.R.	Sambepalle	Routhukunta	205	0	205	13	13	0
Y.S.R.	Rajupalem	Arakatavemula	5	259	264	13	0	13
Y.S.R.	Kadapa	Kadapa (M Corp. + OGI) (Part) Ward	7	272	279	13	0	13
Y.S.R.	BADVEL	Budvel (M) - Ward No.7	36	244	280	13	2	11
Y.S.R.	Vonimitta	Chintarajupalle	382	0	382	13	13	0
Y.S.R.	Galiveedu	Nooliveedu	644	0	644	13	13	0
Y.S.R.	Nandalur	Tanguturu	1199	430	1629	13	10	3
		<b>Total</b>	<b>29608</b>	<b>17688</b>	<b>47296</b>	<b>1885</b>	<b>1226</b>	<b>659</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in India

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 145  
Reserved Random Villages 7  
Total Samples

1794  
91  
1885

**BRU/SEROMON/NIVEDI/Arumachal Pradesh\_3/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 1047

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.043

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 75

Total No of Animals to be Sampled = 810 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Anjaw	Chaglagam	Chakka	24	0	24	11	11	0
Changlang	Diyun	Dumba Mossang	12	0	12	9	9	0
Changlang	Khimiyong	Hanalhlong	17	0	17	10	10	0
Changlang	Bordumsa	Bordumsa Vill.BI&II	21	0	21	10	10	0
Changlang	Changlang	Chingasa	22	0	22	10	10	0
Changlang	Miao	T.R.Camp Bl. I - V (Choephelling T	35	0	35	11	11	0
Changlang	Changlang	Watlom	42	0	42	12	12	0
East Kameng	Watte	Neking Seg-I	12	0	12	9	9	0
East Kameng	Seppa	Tassomora-II	14	0	14	9	9	0
East Kameng	Chayangtajo	Laching Bagang	16	0	16	10	10	0
East Kameng	Watte	Kamsha-I	20	0	20	10	10	0
East Kameng	Bameng	Liya Myorang	26	0	26	11	11	0
East Kameng	Bana	New Sopang-I	26	0	26	11	11	0
East Kameng	Seppa	Mongkya-I	31	0	31	11	11	0
East Kameng	Seppa	Tallong OÇö li	33	0	33	11	11	0
East Kameng	Seppa	Mebua-II	40	0	40	12	12	0
East Kameng	Bana	Miorang (Res)	47	0	47	12	12	0
East Siang	Pasighat	Sibut	38	0	38	12	12	0
East Siang	Namsing	Borguli	71	0	71	12	12	0
Kra Daadi	TALI	Magne Nyodo	14	0	14	9	9	0
Kra Daadi	CHAMBANG	Chambang Town-VI	15	0	15	9	9	0
Kra Daadi	TALI	Ruhi-II	15	0	15	9	9	0
Kra Daadi	TALI	Dote-I	33	0	33	11	11	0
Kra Daadi	PALIN	Tarangbang	58	0	58	12	12	0
Lohit	Lekang (Mahadevpur)	Hati Mara Beel	21	0	21	10	10	0
Lohit	Lathao	Jona - Iv	36	2	38	12	11	1
Lohit	Tezu	Tindolong	45	0	45	12	12	0
Lohit	Chongkham	Guna Nagar - I	89	0	89	12	12	0
Lohit	Chongkham	Napatia	89	0	89	12	12	0
Longding	Pangchao	Kamhua Nonku	42	0	42	12	12	0
Lower Dibang Valley	Koronu	Arungo	39	0	39	12	12	0
Lower Dibang Valley	Tinali ( Paglam )	Kaling li	87	0	87	12	12	0
Lower Subansiri	Kamporijo	Yukar	13	0	13	9	9	0
Lower Subansiri	KAMPORJO-II	Saktap	14	0	14	9	9	0
Lower Subansiri	NIITHI	Pussang	17	0	17	10	10	0
Lower Subansiri	HARI	Abing Uru	17	0	17	10	10	0
Lower Subansiri	Pistana	Tepi	17	0	17	10	10	0
Lower Subansiri	YAZALI	Pei	22	0	22	10	10	0
Lower Subansiri	DIIBO	Tajar Uru	28	0	28	11	11	0
Lower Subansiri	HIA	Oji Uru	41	0	41	12	12	0
Lower Subansiri	NIICHII	Karu	44	0	44	12	12	0
Lower Subansiri	Pistana	Namko Deed	48	0	48	12	12	0
Lower Subansiri	NIICHII	Chiliyang	52	0	52	12	12	0
NAMSAI	NINGROO	CHESING WINGKO	43	0	43	12	12	0
Papum Pare	TARASSO	Ramghat	12	0	12	9	9	0
Papum Pare	Baljan	Chakma - Vi	13	0	13	9	9	0
Papum Pare	TORU1	Ompuli Hoj	19	0	19	10	10	0
Papum Pare	DOIMUKHI	Dengka	21	0	21	10	10	0
Papum Pare	TORU1	Laptap	26	0	26	11	11	0
Papum Pare	TORU1	Depo (W)	29	0	29	11	11	0
Papum Pare	ITANAGAR	Papu Nallah, Oju Mission,Royal In	34	0	34	11	11	0
Papum Pare	DOIMUKHI	Rono	44	0	44	12	12	0
SIANG	Rumgong	Molom	24	0	24	11	11	0
SIANG	Rumgong	Rumgong	38	0	38	12	12	0
Tawang	Mukto Circle	Mirba	23	0	23	11	11	0
Tawang	Tawang Circle	Khartoth	64	0	64	12	12	0
Tawang	Ziro	Ziro (CT) - Ward No.1	265	0	265	13	13	0
Upper Siang	Mariyang	Dulbing Gidum	34	0	34	11	11	0
Upper Siang	Yingkiong	Pugging	73	0	73	12	12	0
Upper Subansiri	Limeking	Bodok	14	0	14	9	9	0

Upper Subansiri	Siyum	Kangring	21	0	21	10	10	0
Upper Subansiri	Taliha	Yakingmori	25	0	25	11	11	0
Upper Subansiri	Dumporijo	Bui	33	0	33	11	11	0
Upper Subansiri	Chetam (Peer Yapu)	Daru	33	0	33	11	11	0
Upper Subansiri	Dumporijo	OLD RIBA	102	0	102	13	13	0
West Kameng	Dirang	Dandri	15	0	15	9	9	0
West Kameng	Dirang	Darbu	20	0	20	10	10	0
West Kameng	Jamiri	Khupi Model Village	21	0	21	10	10	0
West Kameng	Dirang	Barchipam	31	0	31	11	11	0
West Kameng	Dirang	Mandalaphudung	67	0	67	12	12	0
West Siang	Daring	Tapo	12	0	12	9	9	0
West Siang	Aalo	Eyi	18	0	18	10	10	0
West Siang	Likabali	Silli Ete	19	0	19	10	10	0
West Siang	Basar	Pagi	25	0	25	11	11	0
West Siang	Basar	Old Bam	50	0	50	12	12	0
		Total	2711	2	2713	810	809	1

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tehsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 75  
Reserved Random Villages 0  
Total Samples 810

**BRU/SEROMON/NIVEDI/Assam\_4/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 5308

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.022

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 150 (+1 Reserved village)

Total No of Animals to be Sampled = 1950

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
BAKSA	Baksa	Garumara	303	0	303	13	13	0
BAKSA	Tamulpur	Pub Kachukata	608	0	608	13	13	0
BONGAIGAON	Boitamari	Dhaknabari	190	0	190	13	13	0
BONGAIGAON	Sidli (pt )	Takumari	237	0	237	13	13	0
BONGAIGAON	Sidli (pt )	Noitamara	359	0	359	13	13	0
Barpeta	Chenga	Holongopara NC	156	0	156	13	13	0
Barpeta	Baghbor	Bamundongra	214	0	214	13	13	0
Barpeta	Barnagar (Pt )	Dakshin Bherberhi	219	0	219	13	13	0
Barpeta	Bajali (Pt )	Ghotbar Saderi	337	0	337	13	13	0
Barpeta	Chenga	Pathimari NC	372	0	372	13	13	0
Biswanath	Gohpur	KAKILA JARANI	133	0	133	13	13	0
Biswanath	Biswanath	BORAJULI NEPALI	182	0	182	13	13	0
Biswanath	Helem	BALIJAN BONGGAON	203	0	203	13	13	0
Biswanath	Biswanath	BHINGOAN	342	0	342	13	13	0
Biswanath	Biswanath	KOCHGOAN	523	0	523	13	13	0
Cachar	Udharbond	Chalitakandi	87	18	105	13	11	2
Cachar	Katigorah	Bhangarpar Pt-II	158	0	158	13	13	0
Cachar	Silchar	Tarapur Pt-IV	178	0	178	13	13	0
Cachar	Silchar	Ghagrapar Pt-I	210	0	210	13	13	0
Cachar	Silchar	Chuto Dudpatil Grant	341	0	341	13	13	0
Cachar	Lakhipur	Barthol Grant	298	53	351	13	11	2
Cachar	Silchar	Silchar (MB) - Ward No.7	524	0	524	13	13	0
Chirang	Bijni (Pt)	Dawaguri	176	0	176	13	13	0
Chirang	Bijni	Bijni (TC) - Ward No.1	249	0	249	13	13	0
DARRANG	Dalgaon(Pt)	No 2 Kuwaripukhuri	207	0	207	13	13	0
DARRANG	Dalgaon(Pt)	৳৫ Barujhar	1061	0	1061	13	13	0
DHEMAJI	Jonai	Laklung	107	0	107	13	13	0
DHEMAJI	Sissiborgaon	Pume(karoi Tinzahria)	138	0	138	13	13	0
DHEMAJI	Sissiborgaon	No 1 Chekai Mainon	139	0	139	13	13	0
DHEMAJI	Gogamukh	Lagachung Kachari	153	0	153	13	13	0
DHEMAJI	Sissiborgaon	Maj Debera	159	0	159	13	13	0
DHEMAJI	Sissiborgaon	Likabahi(Malini Adi Pathar)	164	0	164	13	13	0
DHEMAJI	Jonai	Bijoypur Ujani	188	0	188	13	13	0
DHEMAJI	Sissiborgaon	Bhangidia Gaon	242	0	242	13	13	0
DHEMAJI	Sissiborgaon	Kalyani Chapori	238	20	258	13	12	1
DHEMAJI	Dhakuakhana (Pt)	Phatibaham Block	258	0	258	13	13	0
DHEMAJI*	Gogamukh	Mainapar Cheta	323	0	323	13	13	0
DHEMAJI	Sissiborgaon	Dambuk Kankan	2147	0	2147	13	13	0
DHUBRI	Chapar (Pt)	KAZIPARA Pt-III	153	0	153	13	13	0
DHUBRI	Golokganj (Pt)	SUKATIKHATA	250	0	250	13	13	0
DHUBRI	Dhubri	FALIMARI Pt-II	281	0	281	13	13	0
DHUBRI	Chapar (Pt)	TOKRABANDA	292	0	292	13	13	0
DHUBRI	Bilaspara(Pt)	UDMARI Pt-III	294	0	294	13	13	0
Dibrugarh	Dibrugarh	Niz- Mankata (OG) - Ward No.25	113	0	113	13	13	0
Dibrugarh	Dibrugarh West	Bhogamur Gaon	148	0	148	13	13	0
Dibrugarh	Tingkhong	Bajpahunara	172	0	172	13	13	0
Dibrugarh	Dibrugarh West	Gharbondi Chuk Jarua Gaon	184	0	184	13	13	0
Dibrugarh	Tengakhat	Julibari T E 28	189	0	189	13	13	0
Dibrugarh	Tingkhong	Deroi T E 44/188	322	0	322	13	13	0
Dibrugarh	Tingkhong	Dalapa	342	0	342	13	13	0
Dibrugarh	Dibrugarh West	Dhakeri Gaon	386	0	386	13	13	0
Dima Hasao	Maibong	Maibong (TC) - Ward No.2	104	24	128	13	11	2
Goulpara	Dudhnoi	Damra Patpara CT	136	0	136	13	13	0
Goulpara	Lakhipur	Silapani	213	0	213	13	13	0
Goulpara	Ranjuli	Sikrajuli Kularbari-	218	0	218	13	13	0
Goulpara	Matia	Mamudpur- Pt-II	307	0	307	13	13	0
Goulpara	Matia	Dubapara	326	0	326	13	13	0
Golaghat	Golaghat	Harupani	116	0	116	13	13	0
Golaghat	Bokakhat	NIKARI	139	0	139	13	13	0
Golaghat	Sarupathar	NO 2 PADUMONI	231	0	231	13	13	0
Golaghat	Dergaon	DIGHALI PAM	274	0	274	13	13	0
Golaghat	Dergaon	MAJKUCHI GAON	578	0	578	13	13	0



Golaghat	Bokakhat	Mohmaiki (CT)	2133	0	2133	13	13	0
Hailakandi	Lala	Nischintapur Pt Ii	169	0	169	13	13	0
Hailakandi	Algapur	Bornagad	293	0	293	13	13	0
Hojai	Hojai	Uttar Chamorali	358	0	358	13	13	0
Hojai	Hojai	Pub Jugijan	461	0	461	13	13	0
Jorhat	Jorhat East	BHARALOWA SONARI	246	0	246	13	13	0
Jorhat	Mariani	BOSABHAR GAON	408	0	408	13	13	0
Jorhat	Jorhat West	SARBAIBONDHA (OG)	811	0	811	13	13	0
Kamrup	Chaygaon	Uttar Banka-	105	0	105	13	13	0
Kamrup	Chamaria	1 Marakuchi	154	0	154	13	13	0
Kamrup	Rangia (PT)	Kalmoni	187	0	187	13	13	0
Kamrup	Boko	8)Chatabari	206	0	206	13	13	0
Kamrup	Chamaria	Sola Pathar	319	0	319	13	13	0
Kamrup	Kamalpur	Piyalikhata	350	0	350	13	13	0
Kamrup	Boko	7)Birpara	382	0	382	13	13	0
Kamrup (M)	Dispur	Kalitakuchi NC	226	0	226	13	13	0
Kamrup (M)	Guwahati	Guwahati (M Corp.) - Ward	1103	0	1103	13	13	0
Karbi Anglong	Phuloni	There Gaon	113	0	113	13	13	0
Karbi Anglong	Diphu	Diphu Ward No.-7	115	0	115	13	13	0
Karbi Anglong	Phuloni	Samgaon	127	0	127	13	13	0
Karbi Anglong	Diphu	Lahorjan Beat Eastern Range	174	0	174	13	13	0
Karbi Anglong	Bokajan	Bokajan (TC) - Ward No.4	174	0	174	13	13	0
Karbi Anglong	Phuloni	Sikari Rangphar	176	0	176	13	13	0
Karbi Anglong	Diphu	Neparpeti Baghjan No.1 & 2	183	0	183	13	13	0
Karbi Anglong	Phuloni	Baghjan	199	0	199	13	13	0
Karbi Anglong	Diphu	Bhta Gaon	208	0	208	13	13	0
Karbi Anglong	Diphu	Rongmidon-I	232	0	232	13	13	0
Karbi Anglong	Phuloni	Parakhua	300	0	300	13	13	0
Karbi Anglong	Diphu	Diphu Ward No.-4	441	0	441	13	13	0
Karimganj	Ramkrishnanagar	Eraligool Pt-ix	114	0	114	13	13	0
Karimganj	Ramkrishnanagar	Bazarghat Pt-i	145	0	145	13	13	0
Karimganj	Ramkrishnanagar	Purba Sarkaribari	152	0	152	13	13	0
Karimganj	Ramkrishnanagar	Sakalpur	176	0	176	13	13	0
Karimganj	Nilambazar	Brojendra Nagar	191	0	191	13	13	0
Karimganj	Nilambazar	Angura	206	0	206	13	13	0
Karimganj	Badarpur	Ghoramara Pt-ii	245	0	245	13	13	0
Karimganj	Badarpur	Arengabad	264	0	264	13	13	0
Karimganj	Ramkrishnanagar	Fetipath	291	0	291	13	13	0
Kokrajhar	Basugaon	Basugaon Town Ward No. 2	116	0	116	13	13	0
Kokrajhar	Kokrajhar	Latugaon	138	0	138	13	13	0
Kokrajhar	Gossaigaon (Pt)	Serfanguri no 2	169	0	169	13	13	0
Kokrajhar	Dotoma	Mainaguri	248	0	248	13	13	0
Kokrajhar	Dotoma	Athiabari FV Pt-II	365	0	365	13	13	0
Lakhimpur	Bihpuria	Karunabari No-1	101	0	101	13	13	0
Lakhimpur	Kadam	Dirgha Naharbari	134	0	134	13	13	0
Lakhimpur	Dhakuakhana(Pt I)	No 1 Alimurbazar	189	0	189	13	13	0
Lakhimpur	Bihpuria	Bogori-I	207	0	207	13	13	0
Lakhimpur	Dhakuakhana(Pt I)	Kala Kata Chetia	224	0	224	13	13	0
Lakhimpur	North Lakhimpur	Sunari	362	0	362	13	13	0
Lakhimpur	Kadam	Goriamari	443	0	443	13	13	0
Majuli	Majuli	Kashilata Natun Chamori (Natun	250	0	250	13	13	0
Majuli	Majuli	Dakhinpat Satra	577	0	577	13	13	0
Morigaon	Marigaon	Bhanganur	183	0	183	13	13	0
Morigaon	Bhuraogaon	Batalimarigaon	288	0	288	13	13	0
Morigaon	Laharighat	Barthal Doloigaon	563	0	563	13	13	0
Nagaon	Samaguri	Dakhin Potakolong	161	0	161	13	13	0
Nagaon	Kampur	Pachim Nambar Lahung Gaon	206	0	206	13	13	0
Nagaon	Rupohi	Chenimari Bill N C	225	0	225	13	13	0
Nagaon	Rupohi	Dakhin Khatowal	353	0	353	13	13	0
Nagaon	Rupohi	Kadamoni Pathar	742	0	742	13	13	0
Nalbari	Ghograpar(Pt)	4 Naherbari	197	0	197	13	13	0
Nalbari	Banekuchi	3 Niz Mularkuchi	479	0	479	13	13	0
Nalbari	Tihu (Pt)	1 Gobradal	489	0	489	13	13	0
Sibsagar	Sibsagar	Kotonipar	216	0	216	13	13	0
Sibsagar	Dimow	Dehajan Habi	348	0	348	13	13	0
Sonitpur	Dhekiajuli (Pt)	Khagarjan Gaon	126	0	126	13	13	0
Sonitpur	Dhekiajuli (Pt)	Osurmari Gaon	136	0	136	13	13	0
Sonitpur	Tezpur	Pithakhowa	168	0	168	13	13	0
Sonitpur	Dhekiajuli (Pt)	Singimari Kuchagaon	189	0	189	13	13	0
Sonitpur	Na-Duar	No.3 Gataimara	256	0	256	13	13	0
Sonitpur	Chariduar	Dharikati	303	0	303	13	13	0

Somitpur	Tezpur	Solmora Gaon	582	0	582	13	13	0
Soraideu	Sonari	Raidongia Na Kachari	160	0	160	13	13	0
Soraideu	Sonari	Towkak Grant No2	274	0	274	13	13	0
South Salmara	Mancachar	Kukurmara Pt II	262	3	265	13	13	0
South Salmara	Mancachar	Pipulbari Pt IV	965	0	965	13	13	0
Tinsukia	Margherita	Pengerigarh Grant No.93	114	0	114	13	13	0
Tinsukia	Tinsukia	No-1 Gorangjan	135	0	135	13	13	0
Tinsukia	Margherita	Lama Gaon	170	0	170	13	13	0
Tinsukia	Doom Dooma	Dangari T E 100/41/158 No	178	0	178	13	13	0
Tinsukia	Lido Town	Lido Town (CT) - Ward No.1	196	0	196	13	13	0
Tinsukia	Sadiya	4 No Santipur	219	0	219	13	13	0
Tinsukia	Doom Dooma	Langsowal T E 210/208	235	0	235	13	13	0
Tinsukia	Tinsukia	No-4 FS Raneagar Te	323	0	323	13	13	0
Udalguri	Mazbat	Lamabari TE	180	0	180	13	13	0
Udalguri	Mazbat	Mazbat Town	762	0	762	13	13	0
Udalguri	Udalguri	Dibbisara	804	0	804	13	13	0
West Karbi Anglong	Donka	Langtukhepi Gaon	199	0	199	13	13	0
West Karbi Anglong	Donka	Ronghidi Gaon	321	0	321	13	13	0
		<b>Total</b>	<b>45258</b>	<b>118</b>	<b>45376</b>	<b>1963</b>	<b>1956</b>	<b>7</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

**Abbreviations:**

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 150  
Reserved Random Villages 1  
Total Samples

1950  
13  
1963

**BRU/SEROMON/NIVEDI/Bihar\_5/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 5952

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.020

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 165 (+11 Reserved villages)

Total No of Animals to be Sampled = 2145

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Araria	Jokihat	Larubari	604	0	604	13	13	0
Arwal	Karpi	Bambhai	180	0	180	13	13	0
Arwal	Karpi	Sarmastpur Newana	165	111	276	13	8	5
Aurangabad	Madanpur	Irkkalan	110	0	110	13	13	0
Aurangabad	Barun	Mukhtapur	105	14	119	13	11	2
Aurangabad	Daudnagar	Daudnagar (M) - Ward No.21	135	23	158	13	11	2
Aurangabad	Haspura	Malahra	179	0	179	13	13	0
Aurangabad	Aurangabad	Yari	163	55	218	13	10	3
Aurangabad	Rafiganj	Chaubara	165	56	221	13	10	3
Aurangabad	Daudnagar	Daudnagar (M) - Ward No.23	201	122	323	13	8	5
Banka*	Belhar	Tola Domjor	108	0	108	13	13	0
Banka	Rajjun	Bakhra Bela	170	0	170	13	13	0
Banka	Katoria	Tola Baluk Kurawa	181	0	181	13	13	0
Banka	Shambhaganj	Kunath	187	0	187	13	13	0
Banka	Phulidumar	Telia Pahar	260	0	260	13	13	0
Banka	Belhar	Tola Suraj Karra	328	0	328	13	13	0
Banka	Amarpur	Chorwe	352	0	352	13	13	0
Banka	Banka	Dudhari	1195	0	1195	13	13	0
Begusarai	Garhpura	Garhpura	365	0	365	13	13	0
Begusarai	Birpur	Ganharpur	1066	35	1101	13	13	0
Bhagalpur	Narayanpur	Shankarpur Gosaindas	114	158	272	13	5	8
Bhagalpur	Pirpanti	Isipur	681	0	681	13	13	0
Bhagalpur	Gopalpur	Dimha	1170	0	1170	13	13	0
Bhojpur	Shahpur	Pursotampur (Ditto)	151	0	151	13	13	0
Bhojpur	Jagdishpur	Babhniyawan	167	0	167	13	13	0
Bhojpur	Koilwar	Songhatta	198	0	198	13	13	0
Bhojpur	Tarari	Karath	219	0	219	13	13	0
Bhojpur	Piro	Chhaurahi Jangal Mahal	226	0	226	13	13	0
Buxar	Buxar	Churamanpur	247	0	247	13	13	0
Buxar	Dumraon	Bhojpur Kadim	723	0	723	13	13	0
Buxar	Barhampur	Chandarpura	100	676	776	13	2	11
Darbhanga*	Tardih	Raja Kharwar	178	0	178	13	13	0
Darbhanga	Darbhanga	Bijuli	207	0	207	13	13	0
Darbhanga	Hanumannagar	Dih Lahi	269	0	269	13	13	0
Darbhanga	Ghanshyampur	Mahuthwar	420	0	420	13	13	0
Darbhanga	Hanumannagar	Thalwara	468	0	468	13	13	0
Gaya	Guraru	Rauda	105	0	105	13	13	0
Gaya	Neem Chak Bathani	Simraur Baraini	129	0	129	13	13	0
Gaya	Tan Kuppa	Kanwan	167	0	167	13	13	0
Gaya	Bodh Gaya	Kolhaura	171	0	171	13	13	0
Gaya	Sherghati	Sone Khap	144	29	173	13	11	2
Gaya	Mohanpur	Guriawan	219	0	219	13	13	0
Gaya	Bodh Gaya	Pathalgarh	178	65	243	13	10	3
Gaya	Bodh Gaya	Jamari	280	0	280	13	13	0
Gaya	Konch	Hichhapur	313	0	313	13	13	0
Gaya*	Gaya	Gaya (M Corp.) - Ward No.49	376	109	485	13	10	3
Gopalganj	Hathua	Jigna Gopal	110	0	110	13	13	0
Gopalganj	Thawe	Gopla Math	124	0	124	13	13	0
Gopalganj	Thawe	Barari Jagdish	157	0	157	13	13	0
Gopalganj	Kuchaikote	Sangwa Dih	129	33	162	13	10	3
Gopalganj	Baikunthpur	Banghat Masuaria	258	0	258	13	13	0
Gopalganj	Baikunthpur	Rewtith	427	0	427	13	13	0
Jamui	Chakai	Ramsinghdih	128	0	128	13	13	0
Jamui	Jhajha	Tola Dumarmah	163	0	163	13	13	0
Jamui	Jhajha	Tola Tetwa	192	28	220	13	11	2
Jamui	Lakshmipur	Tola Khelar	229	0	229	13	13	0
Jamui	Jhajha	Tola Barajor	502	0	502	13	13	0
Jamui	Jhajha	Tola Kanan	572	0	572	13	13	0
Jamui	Khaira	Mangobandar	844	0	844	13	13	0
Jehanabad	Ghoshi	Ahiasa	91	115	206	13	6	7

Jehanabad	Ratni Faridpur	Kaswan	401	0	401	13	13	0
Kaimur (Bhabua)	Rampur	Bhorean	101	0	101	13	13	0
Kaimur (Bhabua)	Rangarh	Isri	51	76	127	13	5	8
Kaimur (Bhabua)	Bhabua	Dumdum	129	0	129	13	13	0
Kaimur (Bhabua)	Chainpur	Muri	161	0	161	13	13	0
Kaimur (Bhabua)	Adhaura	Jamuninar	178	0	178	13	13	0
Kaimur (Bhabua)*	Bhabua	Mokri	49	228	277	13	2	11
Katihar	Korha	Hathia Ramna	116	0	116	13	13	0
Katihar	Pranpur	Khojate Hat	139	0	139	13	13	0
Katihar	Azamnagar	Garaila	229	0	229	13	13	0
Katihar	Katihar	Garbhaili	272	0	272	13	13	0
Katihar	Pranpur	Katghar Karimullapur	341	14	355	13	12	1
Katihar	Barari	Barinagar	1059	0	1059	13	13	0
Khagaria	Alauli	Machhra	265	0	265	13	13	0
Khagaria	Beldaur	Mahinath Nagar	783	0	783	13	13	0
Kishanganj	Thakurganj	Lahugaon Arazi	233	0	233	13	13	0
Kishanganj	Kochadhamin	Kairbirpur	426	3	429	13	13	0
Kishanganj	Kochadhamin	Kochadhamin	473	0	473	13	13	0
Lakhisarai	Surajgarha	Ghuset	173	0	173	13	13	0
Lakhisarai	Surajgarha	Arna	687	0	687	13	13	0
Madhepura	Gwalpara	Bishunpur Arar	307	0	307	13	13	0
Madhepura	Chausa	Phulaut	1209	0	1209	13	13	0
Madhubani	Jhanjharpur	Sohpur	161	0	161	13	13	0
Madhubani	Madhepur	Dara	253	0	253	13	13	0
Madhubani	Laukaha	Basania	278	0	278	13	13	0
Madhubani *	Lakhnaur	Tamoria	375	0	375	13	13	0
Madhubani	Ghoghardiha	Hatni	532	75	607	13	11	2
Munger	Munger	Jafarnagar	205	0	205	13	13	0
Munger	Kharagpur	Agarhan	591	0	591	13	13	0
Muzaffarpur	Kurhani	Thatta Garh Gorari	113	0	113	13	13	0
Muzaffarpur	Minapur	Chak Haibat Urf Phulwaria	142	0	142	13	13	0
Muzaffarpur	Baruraj (Motinur)	Mursandi	179	0	179	13	13	0
Muzaffarpur	Bandra	Rampur Dayal	233	0	233	13	13	0
Muzaffarpur	Saraiya	Supna	242	0	242	13	13	0
Muzaffarpur	Baruraj (Motinur)	Bhanpur Barewa Urf Koirgawan K	259	0	259	13	13	0
Muzaffarpur	Kanti	Akurahan Harihar	264	0	264	13	13	0
Muzaffarpur	Gaighat	Harpur Urf Kamalbarbhadaradith	38	267	305	13	2	11
Muzaffarpur*	Bochaha	Punarwarasham	348	0	348	13	13	0
Nalanda	Biharsharif	Bihar (M) - Ward No.46	65	75	140	13	6	7
Nalanda	Biharsharif	Bihar (M) - Ward No.26	97	67	164	13	8	5
Nalanda	Ekangarsarai	Ekangar Surai (Ct)	188	0	188	13	13	0
Nalanda	Silao	Chandiman	240	0	240	13	13	0
Nalanda	Silao	Barakar	278	0	278	13	13	0
Nawada	Akbarpur	Gobind Bigaha	160	0	160	13	13	0
Nawada	Rajauli	Mangodih Gangtia	146	68	214	13	9	4
Nawada	Roh	Morawan	241	0	241	13	13	0
Nawada	Rajauli	Targir	274	0	274	13	13	0
Nawada	Sirdala	Sirdala	286	0	286	13	13	0
Pashchim Champaran	Majhauha	Gudra	61	44	105	13	8	5
Pashchim Champaran	Nautan	Mangalpur Gudaria	156	0	156	13	13	0
Pashchim Champaran	Bagaha	Salaba	171	0	171	13	13	0
Pashchim Champaran	Nautan	Nautan Khas	241	0	241	13	13	0
Pashchim Champaran	Sikta	Sargatia	365	0	365	13	13	0
Pashchim Champaran	Narkatiaganj	Roari	823	0	823	13	13	0
Patna*	Patna	Patna (M Corp.) - Ward No.47	113	3	116	13	13	0
Patna	Phulwari	Saim Chak	144	0	144	13	13	0
Patna	Bakhtiarpur	Dedur	226	0	226	13	13	0
Patna	Patna Rural	Digha Diara	256	0	256	13	13	0
Patna	Patna	Patna (M Corp.) - Ward No.21	505	19	524	13	13	0
Patna	Athmalgola	Sabnima	679	0	679	13	13	0
Patna	Patna	Patna (M Corp.) - Ward No.4	476	442	918	13	7	6
Purbi Champaran	Mothari	Sirsa Khap	114	0	114	13	13	0
Purbi Champaran	Kotwa	Machhar Ganwan	142	0	142	13	13	0
Purbi Champaran	Madhuban	Jogaulia Tola Madhopur	166	0	166	13	13	0
Purbi Champaran	Sugauli	Chhapra Babas	243	0	243	13	13	0
Purbi Champaran	Adapur	Jamunbhar	125	166	291	13	6	7
Purbi Champaran	Phenhara	Khan Pipra	354	0	354	13	13	0
Purbi Champaran	Areraj	Chatia	695	0	695	13	13	0
Purnia	Jalalgarh	Gehuma	185	0	185	13	13	0
Purnia	Dugarua	Miranga	226	0	226	13	13	0
Purnia	Dhamsdaha	Uina	302	0	302	13	13	0

Purnia	Banmankhi	Harmurhi	448	0	448	13	13	0
Purnia	Rupauli	Matali Khemchand	1145	0	1145	13	13	0
Rohtas*	Kochas	Charra Purwari	105	0	105	13	13	0
Rohtas	Nokha	Nonsuri	126	0	126	13	13	0
Rohtas	Chenari	Ugahni	90	82	172	13	7	6
Rohtas	Nasriganj	Jina	187	0	187	13	13	0
Rohtas	Dinara	Surtapur	205	0	205	13	13	0
Rohtas	Bikramganj	Bikramganj (NA) - Ward No.26	96	120	216	13	6	7
Rohtas	Nauhata	Piparadih	607	0	607	13	13	0
Saharsa	Satar Kataiya	Gobargarha Urf Jarsain	543	0	543	13	13	0
Saharsa	Sonbarsa	Kasnagar	549	0	549	13	13	0
Samastipur *	Bibhutpur	Kishunpur Tabhika	155	0	155	13	13	0
Samastipur	Sarairanjan	Raepur Buzurg	295	0	295	13	13	0
Samastipur	Hasanpur	Sankarpur	347	0	347	13	13	0
Samastipur	Mohiuddinagar	Raspur Putasia	400	0	400	13	13	0
Samastipur	Bibhutpur	Surauli	590	0	590	13	13	0
Saran	Baniapur	Amanw	90	19	109	13	11	2
Saran	Revelganj	Shitab Diara	123	0	123	13	13	0
Saran	Jalalpur	Kumna	153	0	153	13	13	0
Saran	Taraiya	Ardewa	127	81	208	13	8	5
Saran	Manjhi	Chephul	216	0	216	13	13	0
Saran	Marhaura	Silhauri	285	0	285	13	13	0
Saran	Ekma	Asahni	434	0	434	13	13	0
Sheikhpura *	Barbigha	Barbigha (NA) - Ward No.21	76	105	181	13	5	8
Sheikhpura	Sheikhpura	Pachnan	232	0	232	13	13	0
Sheohar	Tairani Chowk	Raja Dith	210	0	210	13	13	0
Sitamarhi	Bairgania	Madhu Chapra	86	114	200	13	6	7
Sitamarhi	Bajpatti	Baragoan	467	0	467	13	13	0
Sitamarhi	Nanpur	Bath Asli	741	0	741	13	13	0
Siwan	Darauli	Kishunpali	101	0	101	13	13	0
Siwan	Guthani	Danraila	139	0	139	13	13	0
Siwan	Maharajganj	Hajipurwa	155	0	155	13	13	0
Siwan*	Bhagwanpur Hat	Aruan	170	0	170	13	13	0
Siwan	Bhagwanpur Hat	Baramh Asthan	169	58	227	13	10	3
Siwan	Bhagwanpur Hat	Saghar Sultanpur	253	0	253	13	13	0
Supaul	Supaul	Laurah	328	0	328	13	13	0
Supaul	Tribeniganj	Thalha Garhia	1069	0	1069	13	13	0
Vaishali	Mahua	Rampur Chandarchan Urf Dazra	98	27	125	13	10	3
Vaishali	Jandaha	Dulwar	37	103	140	13	3	10
Vaishali	Patepur	Kishunwara	162	0	162	13	13	0
Vaishali	Bhagwanpur	Akhtiarpur Patera	165	0	165	13	13	0
Vaishali	Paterhi Belsar	Jarang Rampur	174	0	174	13	13	0
Vaishali	Goraul	Pirapur Methura	227	0	227	13	13	0
Vaishali	Jandaha	Dih Buchauli Urf Bazidpur	34	239	273	13	2	11
Vaishali	Raghopur	Sorabpur Urf Sarapur	171	136	307	13	7	6
		Total	51083	4260	55343	2288	2094	194

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_year\_Fcattle  
e: under\_year\_Fbuffalo

Abbreviations:

f: under\_year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 165  
Reserved Random Villages 11  
Total Samples

2145  
143  
2288

**BRU/SEROMON/NIVEDI//Chandigarh\_6/Phase-III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 1+ (under\_1year\_Fbovine) = 26

Animal Level Prevalence = 0.2 (Based on IInd phase data)

Cluster Level Prevalence = 0.2

Sensitivity of the test used = 0.90

Total No of Villages (Clusters) Selected = 16

Total No of Animals to be Sampled = 193 (Restricted)

DISTRICT_NAME(a)	TABSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo( e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.1	7	0	7	7	7	0
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.24	18	0	18	10	10	0
Chandigarh	Chandigarh	Sarangpur	27	0	27	11	11	0
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.11	11	34	45	12	3	9
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.26	44	22	66	12	8	4
Chandigarh	Chandigarh	Khuda Alisher (Ct)	71	0	71	12	12	0
Chandigarh	Chandigarh	Kaimbwala	88	0	88	12	12	0
Chandigarh	Chandigarh	Mani Majra (R), Basti Kishanpur, Basti	90	0	90	13	13	0
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.25	38	54	92	13	5	8
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.12	80	34	114	13	9	4
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.5	79	80	159	13	6	7
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.6	62	100	162	13	5	8
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.20	165	3	168	13	13	0
Chandigarh	Chandigarh	Dhanas	197	0	197	13	13	0
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.23	219	227	446	13	6	7
Chandigarh	Chandigarh	Chandigarh (M Corp.) - Ward No.7	250	462	712	13	5	8
		Total	1446	1016	2462	193	138	55

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

**Abbreviations:**

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 16  
Reserved Random Villages 0  
Total Samples

193  
0  
193

**BRU/SEROMON/NIVEDI/Chhattisgarh\_7/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 1107

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.027

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 122

Total No of Animals to be Sampled = 1586 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Balod	Gurur	Perpar	195	0	195	13	13	0
Balod	Gurur	Chitaud	222	0	222	13	13	0
Baloda Bazar	Kasdol	Rikokalan	124	0	124	13	13	0
Baloda Bazar	Simga	Gurdi	136	0	136	13	13	0
Baloda Bazar	Baloda Bazar	Karmada	165	0	165	13	13	0
Baloda Bazar	Palari	Sasaha	188	0	188	13	13	0
Baloda Bazar	Bhatapara	Tarenga	252	0	252	13	13	0
Bairampur	Ramanujanj	Kalikapur	126	0	126	13	13	0
Bairampur	Bairampur	Putsura	145	0	145	13	13	0
Bairampur	Bairampur	Ranhat	161	0	161	13	13	0
Bairampur	Ramanujanj	Bhawarmal	328	0	328	13	13	0
Bairampur	Ramanujanj	Piparpan	316	36	352	13	12	1
Bastar	Lohandiguda	Mardum	121	0	121	13	13	0
Bastar	Bakavand	Bhirlinga	127	0	127	13	13	0
Bastar	Bastar	Lamker	129	0	129	13	13	0
Bastar	Bastar	Mathota	187	0	187	13	13	0
Bastar	Bakavand	Sandkarmari	197	0	197	13	13	0
Bemetara	Bemetara	Birsinghi	143	0	143	13	13	0
Bemetara	Berla	Hatpan	187	26	213	13	11	2
Bijapur	Bhairamgarh	Ider	108	0	108	13	13	0
Bijapur	Bijapur	Kandulnar	131	0	131	13	13	0
Bijapur	Bhairamgarh	Ketulnar	176	0	176	13	13	0
Bijapur	Bijapur	Reddi	179	10	189	13	12	1
Bijapur	Bijapur	Gangaloor	239	0	239	13	13	0
Bilaspur	Kota	Amagohan	109	0	109	13	13	0
Bilaspur	Bilaspur	Khamtarai (Part)	132	0	132	13	13	0
Bilaspur	Pendra Road Gorella	Badhawandand	149	0	149	13	13	0
Bilaspur	Kota	Sargond	111	44	155	13	9	4
Bilaspur	Masturi	Rank	191	0	191	13	13	0
Bilaspur	Takhatpur	Saida	192	0	192	13	13	0
Bilaspur	Takhatpur	Mochh	263	0	263	13	13	0
Dantewada	Kuakonda	Fulpad	179	0	179	13	13	0
Dantewada	Kuakonda	Gadhmiri	195	0	195	13	13	0
Dhamtari	Dhamtari	Potiyadih	141	0	141	13	13	0
Dhamtari	Dhamtari	Khartuli	147	5	152	13	13	0
Dhamtari	Dhamtari	Ranwa	266	20	286	13	12	1
Durg	Patan	Kikirmeta	149	0	149	13	13	0
Durg	Patan	Asoga	180	0	180	13	13	0
Durg	Patan	Kesra	207	0	207	13	13	0
Gariyaband	Deobhog	Sinapali	137	0	137	13	13	0
Gariyaband	Mainpur	Dumaghat	139	0	139	13	13	0
Gariyaband	Bindranavagarh(Gariyaband)	Bindranavagarh (Nawagarh)	172	0	172	13	13	0
Janjgir-Champa	Dabhra	Pharasawani	131	0	131	13	13	0
Janjgir-Champa	Pamgarh	Bhawtara	147	0	147	13	13	0
Janjgir-Champa	Nawagarh	Kuriyari	163	0	163	13	13	0
Janjgir-Champa	Sakti	Sakreli	222	0	222	13	13	0
Janjgir-Champa	Nawagarh	Salkhan	284	0	284	13	13	0
Jashpur	Bagicha	Pandrapat	106	0	106	13	13	0
Jashpur	Bagicha	Jhinki	125	0	125	13	13	0
Jashpur	Kansabel	Dokada	139	0	139	13	13	0
Jashpur	Farsabahal	Bhelwan	155	0	155	13	13	0
Jashpur	Bagicha	Sulesa	230	0	230	13	13	0
Jashpur	Bagicha	Mudhi	257	0	257	13	13	0
Kabirdham (Kawardha)	Bodla	Harin Chhapra	108	0	108	13	13	0
Kabirdham (Kawardha)	Kawardha	Kuteli	124	0	124	13	13	0
Kabirdham (Kawardha)	Bodla	Bhalpahari	138	0	138	13	13	0
Kabirdham (Kawardha)	Sahaspur Lohara	Badauda Kalan	141	0	141	13	13	0
Kabirdham (Kawardha)	Bodla	Shidhari	154	0	154	13	13	0
Kabirdham (Kawardha)	Sahaspur Lohara	Birendra Nagar	184	0	184	13	13	0
Kanker	Kanker	Potgaon	105	0	105	13	13	0

Kanker	Pakhanjur	Indraprasth	125	0	125	13	13	0
Kanker	Antagarh	Bhainsasur	125	4	129	13	13	0
Kanker	Durgkondal	Pachangi	132	0	132	13	13	0
Kanker	Pakhanjur	Rup Nagar	139	0	139	13	13	0
Kanker	Antagarh	Edanar	140	0	140	13	13	0
Kanker	Pakhanjur	Chhotekapsi	178	0	178	13	13	0
Kanker	Pakhanjur	Satya Nagar	204	0	204	13	13	0
Kondagaon	Farasgaon	Banchapai	149	0	149	13	13	0
Kondagaon	Kondagaon	Mardapal	154	0	154	13	13	0
Kondagaon	Kondagaon	Badekanera	272	0	272	13	13	0
Korba	Pali	Boida	108	0	108	13	13	0
Korba	Poundi-Uproda	Sakho	125	0	125	13	13	0
Korba	Poundi-Uproda	Ambawa	132	0	132	13	13	0
Korba	Poundi-Uproda	Matinkhas	138	7	145	13	12	1
Korba	Korba	Padimar no.1 Ward	303	151	454	13	9	4
Korea	Manendragarh	Badkabahara	118	11	129	13	12	1
Korea	Bharatpur	Aktawara	156	0	156	13	13	0
Korea	Khadganva	Udhanapur	176	0	176	13	13	0
Korea	Khadganva	Phunga	263	0	263	13	13	0
Korea	Bharatpur	Murkil	568	0	568	13	13	0
Mahasamund	Mahasamund	Sidhi	104	0	104	13	13	0
Mahasamund	Bagbahra	Ghunchapali Kalan	107	0	107	13	13	0
Mahasamund	Mahasamund	Achhola	119	0	119	13	13	0
Mahasamund	Saraipali	Balsi	133	0	133	13	13	0
Mahasamund	Bagbahra	Mohandi (Mohadi)	141	0	141	13	13	0
Mahasamund	Mahasamund	Achharidih	146	0	146	13	13	0
Mahasamund	Mahasamund	Chhindpan (Chhilpawan)	151	0	151	13	13	0
Mungeli	Lormi	Harna Chaka	141	0	141	13	13	0
Mungeli	Mungeli	Kodwawani	187	0	187	13	13	0
Mungeli	Mungeli	Bhathari	196	0	196	13	13	0
Narayanpur	Narayanpur	Bakulwahi	147	0	147	13	13	0
Narayanpur	Narayanpur	Chhotedongar	677	0	677	13	13	0
Raigarh	Pusour	Bunga	102	0	102	13	13	0
Raigarh	Udaipur (Dharamjagarh)	Putkacchhar	118	0	118	13	13	0
Raigarh	Lalunga	Potra	127	0	127	13	13	0
Raigarh	Pusour	Padigaon	127	0	127	13	13	0
Raigarh	Raigarh	Bansiya	128	0	128	13	13	0
Raipur	Raipur	Mandhar	165	0	165	13	13	0
Raipur	Tilda	Asaunda	190	0	190	13	13	0
Raipur	Abhanpur	Uparwara	175	59	234	13	10	3
Rajnandgaon	Khairagarh	Sonbhattha	103	0	103	13	13	0
Rajnandgaon	Mohla	Mohla	118	0	118	13	13	0
Rajnandgaon	Chhuriya	Khobha	141	0	141	13	13	0
Rajnandgaon	Chhuikhadan	Padmawatipur	143	0	143	13	13	0
Rajnandgaon	Khairagarh	Salouni	143	2	145	13	13	0
Rajnandgaon	Rajnandgaon	Gadhula	148	0	148	13	13	0
Rajnandgaon	Khairagarh	Baldeopur	136	24	160	13	11	2
Rajnandgaon	Rajnandgaon	Mangata	173	0	173	13	13	0
Rajnandgaon	Rajnandgaon	Stadium Ward	204	2	206	13	13	0
Sukma	Chhindgarh	Palem	187	0	187	13	13	0
Sukma	Konta	Temelwada	217	0	217	13	13	0
Sukma	Chhindgarh	Kumakoleng	364	0	364	13	13	0
Surajpur	Oudgi	Odgi	147	0	147	13	13	0
Surajpur	Bhaiyathan	Joor	183	0	183	13	13	0
Surajpur	Bhaiyathan	Sirsi	190	0	190	13	13	0
Surguja	Mainpat	Karamha	127	0	127	13	13	0
Surguja	Mainpat	Lurena	152	0	152	13	13	0
Surguja	Mainpat	Narbadapur	240	0	240	13	13	0
Surajpur	Ramanujnagar	Kailaspur Kotari	106	0	106	13	13	0
Surajpur	Surajpur	Dwarikanagar	108	0	108	13	13	0
Surguja	Udaypur	Ghatbarra	92	0	92	13	13	0
Surajpur	Oudgi	Paladnauli	128	0	128	13	13	0
		Total	20890	401	21291	1586	1566	20

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in India

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_FBuffalo

Abbreviations:  
f: under\_1year\_FBovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 122  
Reserved Random Villages 0  
Total Samples

1586  
0  
1586



**BRU/SEROMON/NIVEDI/Dadra & Nagar Haveli and Daman & Diu\_8/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 1+ (under\_1year\_Fbovine) = 64

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.17

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 18

Total No of Animals to be Sampled = 195 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Umarkui	18	0	18	10	10	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Khedpa	48	0	48	12	12	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Masat (Ct)	49	0	49	12	12	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Kudacha	51	0	51	12	12	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Khanvel	64	0	64	12	12	0
Dadra And Nagar Haveli	Silvassa	Silvassa CT No.1 - Ward	67	16	83	12	10	2
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Kilavani	121	0	121	13	13	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Chikhali	222	0	222	13	13	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Amboli	290	0	290	13	13	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Sili	333	0	333	13	13	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Mota Randha	358	3	361	13	13	0
Dadra And Nagar Haveli	Dadra & Nagar Haveli	Chinsda	740	0	740	13	13	0
Daman	Daman	Janivankad	3	0	3	3	3	0
Daman	Daman	Kadaiya Ct	5	0	5	5	5	0
Daman	Daman	Bhimpore Ct	9	0	9	8	8	0
Diu	Diu	Saudwadi	12	0	12	9	9	0
Diu	Diu	Diu (M Ct) - Ward No.1	21	0	21	10	10	0
Diu	Diu	Bhucharvada	41	0	41	12	12	0
		<b>Total</b>	<b>2452</b>	<b>19</b>	<b>2471</b>	<b>195</b>	<b>193</b>	<b>2</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in India

**Abbreviations:**

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 18  
Reserved Random Villages 0  
Total Samples 195

**BRU/SEROMON/NIVEDI/Delhi\_10/Phase-III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 5 + (under\_1year\_Fbovine) = 145

Animal Level Prevalence = 0.2 (Based on IInd phase data)

Cluster Level Prevalence = 0.11

Sensitivity of the test used = 0.90

Total No of Villages (Clusters) Selected = 29

Total No of Animals to be Sampled = 334 (Restricted )

DISTRICT_NAME(a)	TABSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo( e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
SOUTH WEST	Najafgarh	Jhulhuli	46	0	46	12	12	0
SOUTH WEST	Dwarka	Pochan Pur	56	0	56	12	12	0
SOUTH WEST	Dwarka	Dhool Siras	57	0	57	12	12	0
SOUTH WEST	Najafgarh	Kair	128	0	128	13	13	0
SOUTH WEST	Najafgarh	Khera Dabar	309	796	1105	13	4	9
EAST	Gandhi Nagar	Shakar Pur Baramad	22	0	22	10	10	0
EAST	Mayur Vihar	Chilla Saroda Khadar	135	0	135	13	13	0
NORTH	Narela	Lam Pur	26	0	26	11	11	0
NORTH	Narela	Holambi Khurd Village	40	0	40	12	12	0
NORTH	Narela	Naya Bans	42	0	42	12	12	0
NORTH	Narela	Harevli	104	0	104	13	13	0
NORTH	Narela	Sultan Pur Dabas	1412	0	1412	13	13	0
NORTH WEST	SULTANPUR MAJRA	MANGOLPURI-D	4	9	13	9	3	6
NORTH WEST	Rohini	Pooth Kalan	19	11	30	11	7	4
NORTH WEST	Kanjhawala	Jaunti	138	0	138	13	13	0
NORTH WEST	Saraswati Vihar	Saoda	156	0	156	13	13	0
SOUTH	Saket	Neb Sarai	23	0	23	11	11	0
SOUTH	Saket	Satberi	156	0	156	13	13	0
CENTRAL	BURARI	JHARODA	11	11	22	10	5	5
CENTRAL	Civil Lines	Jharoda Majra Burari	326	0	326	13	13	0
NORTH EAST	SEELAMPUR	BRAHAM PURI	4	5	9	8	4	4
NORTH EAST	SEELAMPUR	GHONDA	0	14	14	9	0	9
NEW DELHI	KASTURBA NAGAR	KASTURBA NAGAR	4	5	9	8	4	4
NEW DELHI	Delhi Cantonment	Sahbad Mohd. Pur	46	0	46	12	12	0
WEST	Punjabi Bagh	Hiran Kudna	17	0	17	10	10	0
WEST	NANGLOI JAT	NIHAL VIHAR	311	94	405	13	10	3
WEST	MADIPUR	NARAINA	400	254	654	13	8	5
SHAHDARA	SEEMA PURI	NEW SEEMAPURI	18	19	37	11	5	6
South East	Sarita Vihar	Aali	23	0	23	11	11	0
		Total	4033	1218	5251	334	279	55

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in India

**Abbreviations:**

a: District Name

b: Tahsil Name

c: Village Name

d: under\_1year\_Fcattle

e: under\_1year\_Fbuffalo

f: under\_1year\_Fbovine

g: Number of units to Sample

h: Cattle Proportion

i: Buffalo Proportion

Random Villages 145

Reserved Random Villages 0

Total Samples

334

0

334

**BRU/SEROMON/NIVEDI/Goa\_11/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 159

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.040

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 83

Total No of Animals to be Sampled = 916 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
North Goa	Pernem	Alorna	11	0	11	8	8	0
North Goa	Tiswadi	Neura-O-Pequeno	12	0	12	9	9	0
North Goa	Bardez	Parra	13	0	13	9	9	0
North Goa	Pernem	Varconda	15	0	15	9	9	0
North Goa	Satari	Gullem	15	0	15	9	9	0
North Goa	Pernem	Torxem	15	0	15	9	9	0
North Goa	Satari	Ponocem	16	0	16	10	10	0
North Goa	Tiswadi	Mandur	16	0	16	10	10	0
North Goa	Satari	Carambolim-Bozruco	16	0	16	10	10	0
North Goa	Satari	Naneli	16	0	16	10	10	0
North Goa	Satari	Morlem	19	0	19	10	10	0
North Goa	Mapusa	Mapusa (M Cl) - Ward No.4	11	10	21	10	5	5
North Goa	Pernem	Tamboxem	22	0	22	10	10	0
North Goa	Bardez	Sodiem	22	0	22	10	10	0
North Goa	Tiswadi	Batim	23	0	23	11	11	0
North Goa	Bicholim	Mencurem	23	0	23	11	11	0
North Goa	Pernem	Ozorim	26	0	26	11	11	0
North Goa	Satari	Davem	26	0	26	11	11	0
North Goa	Satari	Ansolem	30	0	30	11	11	0
North Goa	Bardez	Tivim	30	0	30	11	11	0
North Goa	Mapusa	Mapusa (M Cl) - Ward No.1	7	24	31	11	2	9
North Goa	Bicholim	Amone	32	0	32	11	11	0
North Goa	Pernem	Morjim (Ct)	32	0	32	11	11	0
North Goa	Bicholim	Carapur (Ct)	36	0	36	11	11	0
North Goa	Valpoi	Valpoi (M Cl) - Ward No.1	31	5	36	11	9	2
North Goa	Satari	Poriem	36	0	36	11	11	0
North Goa	Bardez	Aldona (Ct)	42	0	42	12	12	0
North Goa	Valpoi	Valpoi (M Cl) - Ward No.5	42	2	44	12	11	1
North Goa	Pernem	Cansarvonem	42	2	44	12	11	1
North Goa	Bicholim	Pale (Ct)	47	0	47	12	12	0
North Goa	Bicholim	Bicholim (M Cl) - Ward No.4	37	14	51	12	9	3
North Goa	Pernem	Ibrampur	51	0	51	12	12	0
North Goa	Satari	Onda (Ct)	54	0	54	12	12	0
North Goa	Bicholim	Cudnem	55	0	55	12	12	0
North Goa	Bardez	Pirna	56	0	56	12	12	0
North Goa	Pernem	Dargalim	57	0	57	12	12	0
North Goa	Satari	Compordem	83	0	83	12	12	0
North Goa	Pernem	Corgao	95	0	95	13	13	0
North Goa	Bicholim	Latambarcem	242	0	242	13	13	0
South Goa	Mormugao	Cansaulim	12	0	12	9	9	0
South Goa	Margao	Margao (MCl) - Ward No.18	8	4	12	9	6	3
South Goa	Ponda	Candola (Ct)	13	0	13	9	9	0
South Goa	Salcete	Cavelossim	14	0	14	9	9	0
South Goa	Margao	Margao (M Cl) - Ward No.11	1	15	16	10	1	9
South Goa	Mormugao	Mormugao (M Cl) - Ward No.19	8	9	17	10	5	5
South Goa	Dharbandora	Codli	17	0	17	10	10	0
South Goa	Salcete	Nuven (Ct)	18	0	18	10	10	0
South Goa	Quepem	Avedem	18	0	18	10	10	0
South Goa	Curchorem Cacora	Curchorem Cacora (M Cl) - Ward No.1	7	13	20	10	3	7
South Goa	Curchorem Cacora	Curchorem Cacora (M Cl) - Ward No.2	0	21	21	10	0	10
South Goa	Quepem	Ambaulim	23	0	23	11	11	0
South Goa	Quepem	Bendordem	24	0	24	11	11	0
South Goa	Quepem	Molcarnem	24	0	24	11	11	0
South Goa	Ponda	Gangem	25	0	25	11	11	0
South Goa	Salcete	Betalbatim	26	0	26	11	11	0
South Goa	Salcete	Colva	27	0	27	11	11	0
South Goa	Salcete	Navelim (Ct)	27	0	27	11	11	0
South Goa	Ponda	Marcaim (Ct)	27	0	27	11	11	0
South Goa	Cuncolim	Cuncolim (M Cl) - Ward No.8	11	17	28	11	4	7
South Goa	Sanguem	Porteem	31	0	31	11	11	0

South Goa	Sanguem	Verlem	33	0	33	11	11	0
South Goa	Canacona	Canacona (M CI) - Ward No.1	15	17	34	11	5	6
South Goa	Canacona	Canacona (M CI) - Ward No.8	20	17	37	11	6	5
South Goa	Salcete	Carmona	43	0	43	12	12	0
South Goa	Sanguem	Carpem	38	6	44	12	10	2
South Goa	Cuncolim	Cuncolim (M CI) - Ward No.6	20	25	45	12	5	7
South Goa	Dharbandora	Pilem	45	0	45	12	12	0
South Goa	Salcete	Raia (CI)	46	0	46	12	12	0
South Goa	Quepem	Naquerim	32	15	47	12	8	4
South Goa	Ponda	Niranca	30	21	51	12	7	5
South Goa	Margao	Margao (M CI) - Ward No.2	13	38	51	12	3	9
South Goa	Dharbandora	Sancordem	54	0	54	12	12	0
South Goa	Sanguem	Vichundrem	62	0	62	12	12	0
South Goa	Canacona	Loiem	65	0	65	12	12	0
South Goa	Cuncolim	Cuncolim (M CI) - Ward No.5	30	36	66	12	5	7
South Goa	Quepem	Cavorem	70	0	70	12	12	0
South Goa	Cuncolim	Cuncolim (M CI) - Ward No.2	36	34	70	12	6	6
South Goa	Dharbandora	Darbandora	83	0	83	12	12	0
South Goa	Cuncolim	Cuncolim (M CI) - Ward No.10	34	52	86	12	5	7
South Goa	Quepem	Cordem	96	0	96	13	13	0
South Goa	Canacona	Gadongrem	137	0	137	13	13	0
South Goa	Ponda	Usgao (CI)	121	0	121	13	13	0
South Goa	Canacona	Cotigao	142	0	142	13	13	0
		Total	3080	397	3479	916	796	120

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in India

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

**Abbreviations:**

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 83  
Reserved Random Villages 0  
Total Samples

916  
0  
916

**BRU/SEROMON/NIVEDI/Gujarat\_12/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 3686

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.024

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 138 (+4 Reserved villages)

Total No of Animals to be Sampled = 1794

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo( e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
AHMADABAD	Sanand	Juda	182	0	182	13	13	0
AHMADABAD	Viramgam	Sokali	187	0	187	13	13	0
AHMADABAD	Daskroi	Kathwada (OG)	313	0	313	13	13	0
AHMADABAD	Ahmadabad	Ahmadabad (M Corp.) - Ward	655	169	824	13	10	3
AMRELI	Amreli	Amreli (M) - Ward No.1	98	23	121	13	11	2
AMRELI	Amreli	Gavadka	136	0	136	13	13	0
AMRELI	Amreli	Babapur	108	69	177	13	8	5
AMRELI	BABRA	WARD NO. 5	132	83	215	13	8	5
AMRELI	Dhari	Malshika	102	289	391	13	3	10
ANAND	Khambhat	Vadola	292	0	292	13	13	0
ANAND	Borsad	Dabhasi	141	193	334	13	5	8
ANAND*	Khambhat	Vatra	171	324	495	13	4	9
ARVALLI	Malpur	Kasvada	141	0	141	13	13	0
ARVALLI	Meghraj	Limbodara (Ramgadhi)	207	0	207	13	13	0
ARVALLI	Bhiloda	Chorimala	232	0	232	13	13	0
ARVALLI	Bayad	Sarsoli	360	0	360	13	13	0
ARVALLI	Meghraj	Bhemapur	368	0	368	13	13	0
BANAS KANTHA	Danta	Jetvas	109	0	109	13	13	0
BANAS KANTHA	Amirgadh	Kidotar	169	0	169	13	13	0
BANAS KANTHA	Vadgam	Thalwada	194	0	194	13	13	0
BANAS KANTHA	Palanpur	Hoda	296	0	296	13	13	0
BANAS KANTHA	Lakhani	Nani	344	0	344	13	13	0
BANAS KANTHA	Deodar	Vatam Juna	415	0	415	13	13	0
BANAS KANTHA	Lakhani	Lembau	580	0	580	13	13	0
BANAS KANTHA	Dantiwada	Ramsida (Chhapra)	612	0	612	13	13	0
BANAS KANTHA	Vadgam	Kodaram	733	0	733	13	13	0
BANAS KANTHA	Dhanera	Khimat	916	0	916	13	13	0
BHARUCH	Netrang	Shankoi	132	0	132	13	13	0
BHARUCH	Valia	Rundha	175	0	175	13	13	0
BHARUCH	Netrang	Umarkharda	191	0	191	13	13	0
BHARUCH	Netrang	Pingot	461	0	461	13	13	0
BHARUCH	Netrang	Kavachia	916	0	916	13	13	0
BHAVNAGAR	Vallabhipur	Haliyad	132	0	132	13	13	0
BHAVNAGAR	Bhavnagar	Kardej	184	0	184	13	13	0
BHAVNAGAR	Bhavnagar	Bhadhid	211	0	211	13	13	0
BHAVNAGAR	Palitana	Palitana (M) - Ward No.5	191	87	278	13	9	4
BHAVNAGAR	Palitana	Mota Garajiya	453	489	942	13	6	7
BOTAD*	Gadhada	Ningala	244	0	244	13	13	0
BOTAD	Ranpur	Aniyali Kathi	378	0	378	13	13	0
CHHOTAUDEPUR	Jetpur Pavi	Baravad	123	0	123	13	13	0
CHHOTAUDEPUR	Kavant	Roddha	147	0	147	13	13	0
CHHOTAUDEPUR	Jetpur Pavi	Moti Amrol	177	0	177	13	13	0
CHHOTAUDEPUR	Nasvadi	Kukarda	193	0	193	13	13	0
CHHOTAUDEPUR	BODELI	Morakhala	212	0	212	13	13	0
CHHOTAUDEPUR	Nasvadi	Akona	120	109	229	13	7	6
CHHOTAUDEPUR	Jetpur Pavi	Muvada	133	448	581	13	3	10
DEVBHUMI DWARKA	Kalyanpur	Bhatvadiya	19	148	167	13	1	12
DEVBHUMI DWARKA	Kalyanpur	Lamba	42	542	584	13	1	12
DOHAD	Limkheda	Agara (U)	120	0	120	13	13	0
DOHAD	Devgadbaria	Uchvan	183	0	183	13	13	0
DOHAD	Devgadbaria	Devgadbaria (M) - Ward No.3	10	188	198	13	1	12

DOHAD	Jhalod	Lilva Thakor	228	0	228	13	13	0
DOHAD	Jhalod	Therka	88	175	263	13	4	9
DOHAD*	Limkheda	Chaidiya	299	0	299	13	13	0
GANDHINAGAR	Kalol Gandhinagar	Amaja	212	0	212	13	13	0
GANDHINAGAR	Gandhinagar	Isanpur Mota	351	0	351	13	13	0
GIR SOMNATH	Una	Sanjavapur	250	0	250	13	13	0
GIR SOMNATH	Kodinar	Alidar	707	0	707	13	13	0
JAMNAGAR	Jamjodhpur	Son Vadiya	50	115	165	13	4	9
JAMNAGAR	Jamnagar	Jamnagar (M Corp.) - Ward	156	50	206	13	10	3
JAMNAGAR	Kalavad	Mota Vadala	230	0	230	13	13	0
JUNAGADH	Junagadh	Junagadh (M) - Ward No.2	23	203	226	13	1	12
JUNAGADH	Malia Hatina	Shantipura	161	120	281	13	7	6
JUNAGADH	Chorvad	Chorvad (M) - Ward No.1	230	60	290	13	10	3
KACHCHH	Nakhatrana	Sukhpar (Roha)	113	0	113	13	13	0
KACHCHH	Bhuj	Habay	150	0	150	13	13	0
KACHCHH	Bhuj	Dagala	244	0	244	13	13	0
KACHCHH	Rapar	Rapar (M) - Ward No.1	138	117	255	13	7	6
KACHCHH	Nakhatrana	Netra	202	115	317	13	8	5
KACHCHH	Bhuj	Godpar (Khavda)	50	289	339	13	2	11
KACHCHH	Mandvi	Durgapar	351	0	351	13	13	0
KACHCHH	Bhuj	Dhordo	19	413	432	13	1	12
KHEDA	Kapadvanj	Vadadhara	151	0	151	13	13	0
KHEDA	Matar	Hajjarabad	199	0	199	13	13	0
KHEDA	Chaklasi	Chaklasi (M) - Ward No.2	64	205	269	13	3	10
KHEDA	Kathlal	Kathlal (M) Ward: 1	3	347	350	13	0	13
KHEDA	Kapadvanj	Antisar	385	0	385	13	13	0
MAHESANA	Unjha	Upera	181	0	181	13	13	0
MAHESANA	Visnagar	Kamalpur (Kharavada)	84	129	213	13	5	8
MAHESANA	Kheralu	Machhava	265	0	265	13	13	0
MAHESANA	Mahesana	Dela	400	0	400	13	13	0
MAHESANA	Sattasana	Umari	430	0	430	13	13	0
MORBI	Wankaner	Tithava	182	0	182	13	13	0
MORBI	Morvi	Makansar	249	0	249	13	13	0
Mahisagar	Lunawada	Navi Singanali	48	54	102	13	6	7
Mahisagar	Lunawada	Dhamod	133	0	133	13	13	0
Mahisagar	Virpur	Ratanuva	151	0	151	13	13	0
Mahisagar	Balasinor	Kambopa	198	0	198	13	13	0
Mahisagar*	Santrampur	Manchod	59	208	267	13	3	10
Mahisagar	Santrampur	Gothib	195	205	400	13	6	7
NARMADA	Dediapada	Samarpada (Thava)	125	0	125	13	13	0
NARMADA	Sagbara	Sagbara (CT)	114	36	150	13	10	3
NARMADA	Dediapada	Babada	169	0	169	13	13	0
NARMADA	Dediapada	Chikda	117	91	208	13	7	6
NARMADA	Nandod	Navra	50	254	304	13	2	11
NAVSARI	Bansda	Navtad	216	0	216	13	13	0
NAVSARI	Chikhli	Fadvel	277	0	277	13	13	0
NAVSARI	Bansda	Mahuvus	299	0	299	13	13	0
PANCH MAHALS	Shehera	Demli	146	0	146	13	13	0
PANCH MAHALS	Shehera	Rena	199	0	199	13	13	0
PANCH MAHALS	Ghoghamba	Devlikuva	244	0	244	13	13	0
PANCH MAHALS	Shehera	Dalvada	325	0	325	13	13	0
PANCH MAHALS	Morwa (Hadaf)	Sagwada	161	416	577	13	4	9
PATAN	Saraswati	Bhatsan	179	0	179	13	13	0
PATAN	Radhanpur	Radhanpur (M) - Ward No.2	148	131	279	13	7	6
PATAN	Saraswati	Koita	159	477	636	13	3	10
PORBANDAR	Kutiyana	Bavlavadar	198	0	198	13	13	0
PORBANDAR	Ranavav	Amardad (OG) - Ward No.7	147	267	414	13	5	8
RAJKOT	Upleta	Paneli Moti	175	0	175	13	13	0
RAJKOT	Jasdan	Gadhadiya (Jam)	254	0	254	13	13	0
RAJKOT	Gondal	Gondal (M) - Ward No.4	94	201	295	13	4	9
RAJKOT	Jasdan	Khadvavdi	334	0	334	13	13	0
RAJKOT	Jasdan	Jasdan (M) - Ward No.2	480	308	788	13	8	5

SABAR KANTHA	Himatnagar	Bhadardi	142	0	142	13	13	0
SABAR KANTHA	Idar	Falasan	210	0	210	13	13	0
SABAR KANTHA	Talod	Lalpur (Ranasan)	225	0	225	13	13	0
SABAR KANTHA	Prantij	Vadrad	291	0	291	13	13	0
SABAR KANTHA	Khedbrahma	Kalol	608	0	608	13	13	0
SURAT	Mandvi surat	Badral	115	0	115	13	13	0
SURAT	Mahuva	Karcheliya	147	0	147	13	13	0
SURAT	Mandvi surat	Gamtalav Bujrang	208	0	208	13	13	0
SURAT	Olpad	Sayan (CT)	271	0	271	13	13	0
SURAT	Mangrol	Borsad	383	0	383	13	13	0
SURAT	Mahuva	Kos	413	49	462	13	12	1
SURENDRANAGAR	Sayla	Ninama	184	0	184	13	13	0
SURENDRANAGAR	Chotila	Reshamiya	314	0	314	13	13	0
SURENDRANAGAR	Sayla	Khintla	362	0	362	13	13	0
TAPI	Dolvan	Chunawadi	139	0	139	13	13	0
TAPI	Songadh	Nana Bandharpada	88	99	187	13	6	7
TAPI	Songadh	Monghvan	217	0	217	13	13	0
TAPI	Songadh	Songadh (M) - Ward No.1	119	127	246	13	6	7
TAPI	Dolvan	Dolvan	340	0	340	13	13	0
VADODARA	Padra	Gavasad	149	0	149	13	13	0
VADODARA	Karjan	Rarod	162	0	162	13	13	0
VADODARA	Sinor	Mindhol	184	0	184	13	13	0
VADODARA	Vadodara Rural	Sayajipura(Og)	235	0	235	13	13	0
VADODARA	Dabhoi	Dabhoi (M) - Ward No.6	213	283	496	13	6	7
VALSAD	Pardi	Chival	190	0	190	13	13	0
VALSAD	Kaprada	Ghanveri	234	0	234	13	13	0
VALSAD	Valsad	Untdi	278	0	278	13	13	0
VALSAD	Pardi	Goima	362	0	362	13	13	0
VALSAD	Kaprada	Astol	383	0	383	13	13	0
		<b>Total</b>	<b>32745</b>	<b>8705</b>	<b>41450</b>	<b>1846</b>	<b>1521</b>	<b>325</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

**Abbreviations:**

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Unservd Villages 138  
Reserved Villages 4  
Total Samples

1794  
52  
1846

**BRU/SEROMON/NIVEDI/Haryana\_13/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 1104

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.031

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 106 (+4 Reserved villages)

Total No of Animals to be Sampled = 1378

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo (e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
AMBALA	Barara	Holi (150)	110	0	110	13	13	0
AMBALA	Ambala	Ambala (M CI) - Ward No.10	72	78	150	13	6	7
AMBALA	Ambala	Ambala (M CI) - Ward No.18	105	89	194	13	7	6
AMBALA	Barara	Ugali (244)	195	0	195	13	13	0
AMBALA	Ambala	Ambala (M CI) - Ward No.8	93	141	234	13	5	8
AMBALA	Ambala	Ambala (M CI) - Ward No.20	189	63	252	13	10	3
BHIWANI	Bawani Khera	Bawani Khera (MC) - Ward	27	132	159	13	2	11
BHIWANI	Loharu	Dhigawa Shamvanti(39)	79	132	211	13	5	8
BHIWANI	Loharu	Kushal Purat(48)	42	203	245	13	2	11
BHIWANI	Siwani	Bidhwan (113)	122	304	426	13	4	9
BHIWANI*	Tosham	Bhera(90)	136	329	465	13	4	9
CHARKI DADRI	Dadri	Jhohu Kalan(71)	162	0	162	13	13	0
CHARKI DADRI	Badhra	Kadma(57)	220	0	220	13	13	0
FARIDABAD	Faridabad	Faridabad (M Corp.) - Ward	13	234	247	13	1	12
FARIDABAD	Ballabgarh	Mandhawali(92)	18	248	266	13	1	12
FATEHABAD	Fatehabad	Khabra Kalan(9)	121	0	121	13	13	0
FATEHABAD	Fatehabad	Gorakhpur(52)	173	0	173	13	13	0
FATEHABAD	Fatehabad	Dhingsara (30)	216	0	216	13	13	0
FATEHABAD	Tohana	Parta(110)	87	334	421	13	3	10
FATEHABAD	Tohana	Jamalpur Shaikhani(99)	77	361	438	13	2	11
GURUGRAM	Sohna	Sohna MC Ward NO 20	62	171	233	13	3	10
GURUGRAM	Farrukhnagar	Farrukhnagar (MC) - Ward No.1	383	14	397	13	13	0
GURUGRAM	Gurugram	Gurgaon (M CI) - Ward No.2	460	30	490	13	12	1
HISAR	Hisar	Kharkhari(27)	102	0	102	13	13	0
HISAR	Hisar	Hisar (M CI) - Ward No.19	58	106	164	13	5	8
HISAR	Hisar	Hisar (M CI) - Ward No.9	220	0	220	13	13	0
HISAR	Hisar	Hisar (M CI) - Ward No.11	61	160	221	13	4	9
HISAR	Hisar	Kaimri(165)	346	0	346	13	13	0
HISAR	Hisar	Dewel(60)	104	323	427	13	3	10
JHAJJAR	Matenhail	Nilaberi(197)	8	132	140	13	1	12
JHAJJAR	Beri	Dhandlab(7)	45	181	226	13	3	10
JHAJJAR	Beri	Beri (MC) - Ward No.7	265	30	295	13	12	1
JHAJJAR	Jhajjar	Patoda(249)	86	385	471	13	2	11
JHAJJAR	Matenhail	Akehrri Madanpuri(200)	112	511	623	13	2	11
JIND *	Uchana	Uchana (MC) - Ward No.11	5	100	105	13	1	12
JIND	Safidon	Safidon (MC) - Ward No.2	115	51	166	13	9	4
JIND	Jmd	Jhanj Kalan (86)	13	218	231	13	1	12
JIND	Narwana	Daroli Khera (97)	23	222	245	13	1	12
JIND	Narwana	Dumarkha Khurd (120)	29	230	259	13	1	12
JIND	Jmd	Dauhla (80)	70	641	711	13	1	12
KAITHAL	Guhla	Mastgarh (103)	122	0	122	13	13	0
KAITHAL	Guhla	Taranwali (101)	69	118	187	13	5	8
KAITHAL	Guhla	Bhagal (1)	188	0	188	13	13	0
KAITHAL	Fatehpur Pundri	Pharal (12)	430	0	430	13	13	0
KAITHAL	Kaithal	Geong (34)	68	414	482	13	2	11
KARNAL	Indri	Badarpur (41)	103	0	103	13	13	0
KARNAL	Assandh	Uplana (78)	149	0	149	13	13	0
KARNAL	Karnal	Balu (18)	186	0	186	13	13	0
KARNAL	Assandh	Bahri (65)	194	0	194	13	13	0
KARNAL	Nilokheri	Son Kera (51)	238	0	238	13	13	0
KARNAL	Karnal	Karnal (M CI) - Ward No.11	180	63	243	13	10	3
KARNAL	Indri	Biana (48)	248	0	248	13	13	0
KARNAL	Gharaunda	Gharaunda (MC) - Ward No.1	234	77	311	13	10	3
KURUKSHETRA	Pehowa	Chanal Heri (305)	56	57	113	13	6	7
KURUKSHETRA	Thanesar	Ishaqpur (29)	46	80	126	13	5	8
KURUKSHETRA	Thanesar	Halalpur (334)	131	0	131	13	13	0
KURUKSHETRA	Pehowa	Ismailabad (317) (CT)	171	0	171	13	13	0
KURUKSHETRA	Thanesar	Mangoli Jattan (131)	103	87	190	13	7	6
KURUKSHETRA	Pehowa	Thana (56)	195	0	195	13	13	0
KURUKSHETRA	Thanesar	Jyotisar (428)	199	0	199	13	13	0



MAHENDRAGARH	Narnaul	Nang Tihari(164)	48	62	110	13	6	7
MAHENDRAGARH	Mahendragarh	Nangal Sirohi(104)	129	0	129	13	13	0
MAHENDRAGARH	Mahendragarh	Nautana(48)	11	156	167	13	1	12
MAHENDRAGARH	Narnaul	Mandhana(194)	42	145	187	13	3	10
MAHENDRAGARH	Mahendragarh	Pali(39)	72	189	261	13	4	9
MAHENDRAGARH	Kanina	Kanina MC ward No.13	305	63	368	13	11	2
MEWAT	Nuh	Chhapra (167)	3	141	144	13	0	13
MEWAT	Nuh	Rozkameso(173)	17	146	163	13	1	12
MEWAT	Ferozpur Jhirka	Ferozpur Jhirka (MC) - Ward	152	70	222	13	9	4
MEWAT*	Nuh	Meoli(118)	86	197	283	13	4	9
MEWAT	Ferozpur Jhirka	Ranyala Ferozpur(108)	31	357	388	13	1	12
MEWAT	Punahana	Dudoli(221)	52	527	579	13	1	12
PALWAL	Hodal	Bhiduki(99)	131	0	131	13	13	0
PALWAL	Hodal	Sundhad(89)	192	0	192	13	13	0
PALWAL	Hathin	Mohdamka(237)	6	235	241	13	0	13
PALWAL	Hodal	Siba(126)	44	203	247	13	2	11
PALWAL	Hathin	Pahari(240)	97	220	317	13	4	9
PANCHKULA	Panchkula	Panchkula Urban Estate (EO) - Ward	212	98	310	13	9	4
PANCHKULA	Panchkula	Panchkula Urban Estate (EO) - Ward	284	697	981	13	4	9
PANIPAT	Israna	Karadi(64)	47	157	204	13	3	10
PANIPAT	Panipat	Bhadaur (39)	67	177	244	13	4	9
REWARI	Rewari	Giadhla (243)	16	91	107	13	2	11
REWARI	Rewari	Rampura (132) (CT)	118	0	118	13	13	0
REWARI	Rewari	Jatusana (106)	134	0	134	13	13	0
REWARI	Rewari	Lala (228)	38	134	172	13	3	10
REWARI	Rewari	Baldhan Kalan (98)	9	174	183	13	1	12
REWARI	Rewari	Bass Dudha (26)	58	231	289	13	3	10
ROHTAK	Rohtak	Rohtak (M Cl) - Ward No.14	7	261	268	13	0	13
ROHTAK	Rohtak	Rohtak (M Cl) - Ward No.10	1104	617	1721	13	8	5
SIRSA	Dabwali	Kingret(306)	45	65	110	13	5	8
SIRSA	Ellenabad	Chilkani Dhab(105)	154	0	154	13	13	0
SIRSA	Sirsa	Shahpur Begu(86)	162	0	162	13	13	0
SIRSA	Dabwali	Pipli(308)	173	0	173	13	13	0
SIRSA	Sirsa	Makhosarani(20)	233	0	233	13	13	0
SIRSA	Ellenabad	Bhurantwala(106)	233	0	233	13	13	0
SONIPAT*	Gohana	Bidhal (66)	104	0	104	13	13	0
SONIPAT	Kharkhoda	Silana (5R)	143	0	143	13	13	0
SONIPAT	Sonipat	Sonipat (M Cl) - Ward No.27	58	141	199	13	4	9
SONIPAT	Ganaur	Ganaur (MC) - Ward No.15	248	0	248	13	13	0
SONIPAT	Gohana	Rukhi (84)	54	286	340	13	2	11
SONIPAT	Sonipat	Sonipat (M Cl) - Ward No.31	123	253	376	13	4	9
YAMUNANAGAR	Jagadhri	Radauri (44)	108	0	108	13	13	0
YAMUNANAGAR	Chhachhrauli	Chuharpur Kalan (168)	150	0	150	13	13	0
YAMUNANAGAR	Bilaspur	Pammu Wala (184)	76	100	176	13	6	7
YAMUNANAGAR	Bilaspur	Haibatpur (291)	83	94	177	13	6	7
YAMUNANAGAR	Jagadhri	Dhorang (488)	187	0	187	13	13	0
YAMUNANAGAR	Chhachhrauli	Chhachhrauli (311) (CT)	222	0	222	13	13	0
YAMUNANAGAR	Chhachhrauli	Khadri (97)	141	95	236	13	8	5
YAMUNANAGAR	Yamunanagar	Yamunanagar (M Cl) - Ward No.4	147	120	267	13	7	6
YAMUNANAGAR	Yamunanagar	Yamunanagar (M Cl) - Ward No.12	265	376	641	13	5	8
		Total	14755	13927	28682	1430	822	608

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 106  
Reserved Random Villages 4  
Total Samples

1378  
52  
1430

**BRU/SEROMON/NIVEDI/Himachal Pradesh\_14/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 6822

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.033

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 99

Total No of Animals to be Sampled = 1081 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Bilaspur	Namhol	Niharkhan Basla (32)	25	0	25	11	11	0
Bilaspur	Jhanduta	Tihra (209)	5	20	25	11	2	9
Bilaspur	Bilaspur Sadar	Oel (197/1)	80	0	80	12	12	0
Bilaspur	Bilaspur Sadar	Bandla (194)	92	0	92	13	13	0
Chamba	Holi	Sulakhra (130)	21	0	21	10	10	0
Chamba	Saluni	Indereshwar (223)	34	0	34	11	11	0
Chamba	Chamba	Janni (156)	35	0	35	11	11	0
Chamba	Chaurah	Bhauga (554)	55	0	55	12	12	0
Chamba	Saluni	Bhuraul (193)	62	0	62	12	12	0
Chamba	Chamba	Jangi (160)	111	0	111	13	13	0
Hamirpur	Nadaun	Jhandohi (24/7)	2	10	12	9	1	8
Hamirpur	Bhoranj	Balor (44/70)	2	12	14	9	1	8
Hamirpur	Nadaun	Sasan Renthal (21/11)	6	10	16	10	4	6
Hamirpur	Nadaun	Manjheli (20/32)	0	17	17	10	0	10
Hamirpur	Barsar	Samlehra (31/21)	7	12	19	10	4	6
Hamirpur	Nadaun	Bannehr (24/37)	2	17	19	10	1	9
Hamirpur	Tira Sujanpur	Tira Sujanpur (NP) - Ward No.6	15	11	26	11	6	5
Hamirpur	Hamirpur	Hamirpur (M Cl) - Ward No.5	14	14	28	11	5	6
Hamirpur	Hamirpur	Kadhriana (42/54)	2	28	30	11	1	10
Hamirpur	Tira Sujanpur	Tira Sujanpur (NP) - Ward No.4	2	34	36	11	1	10
Kangra	Dera Gopipur	Gahran (547)	11	0	11	8	8	0
Kangra	Palampur	Seotu Buhla (312)	15	0	15	9	9	0
Kangra	Indora	Tamota (50)	16	0	16	10	10	0
Kangra	Nurpur	Dhaneti Bhurian (392)	16	0	16	10	10	0
Kangra	Dharmasala	Swala (326)	19	0	19	10	10	0
Kangra	Kangra	Tiara Dhagiyari (269)	21	0	21	10	10	0
Kangra	Nurpur	Ronah (394)	21	0	21	10	10	0
Kangra	Indora	Makroli (103)	23	0	23	11	11	0
Kangra	Palampur	Menjha Uparla (63)	24	0	24	11	11	0
Kangra	Jaisinghpur	Pandehr (588)	25	0	25	11	11	0
Kangra	Nurpur	Janhun (161)	25	0	25	11	11	0
Kangra	Palampur	Gühr (808)	32	0	32	11	11	0
Kangra	Shahpur	Basnur Khas (129)	35	0	35	11	11	0
Kangra	Nurpur	Ther (82)	35	0	35	11	11	0
Kangra	Jaswan	Pati (24)	24	12	36	11	7	4
Kangra	Palampur	Rakh (23)	39	0	39	12	12	0
Kangra	Bajjnath	Bir Khas (1035)	41	0	41	12	12	0
Kangra	Dera Gopipur	Pragpur (179)	36	41	77	12	6	6
Kangra	Jawali	Basa (469)	95	0	95	13	13	0
Kinnaur	Hangrang	Malling (20/1)	29	0	29	11	11	0
Kinnaur	Nichar	Sungra (324)	53	0	53	12	12	0
Kullu	Kullu	Shamshi (Ct)	123	0	123	13	13	0
Kullu	Kullu	Diar (37/92)	210	0	210	13	13	0
Lahul And Spiti	Udaipur	Kishori (215)	21	0	21	10	10	0
Lahul And Spiti	Udaipur	D.P.F.Bardang (156)	25	0	25	11	11	0
Mandi	Mandi	Gurkotha (155)	14	0	14	9	9	0
Mandi	Aut	D.P.F. Parthachi (514)	16	0	16	10	10	0
Mandi	Lad Bharol	Ghator (151)	17	0	17	10	10	0
Mandi	Karsog	Seri (289)	18	0	18	10	10	0
Mandi	Aut	Rensh (458)	25	0	25	11	11	0
Mandi	Jogindarnagar	Sapairu (283)	30	0	30	11	11	0
Mandi	Chachyot	Pathan (152)	31	0	31	11	11	0
Mandi	Chachyot	Thamlah (30)	31	0	31	11	11	0
Mandi	Nihri	Manjhangan (61)	34	0	34	11	11	0
Mandi	Mandi	Nagebala (219)	40	0	40	12	12	0
Mandi	Thunag	Shikawari (88)	43	0	43	12	12	0
Mandi	Kotli	Lagdhar (16)	43	0	43	12	12	0
Mandi	Padhar	Pundal (541)	46	0	46	12	12	0
Mandi	Karsog	Sarahn (598)	108	0	108	13	13	0
Mandi	Mandi	Misar (438)	122	0	122	13	13	0

Shimla	Theog	Kundli (267)	11	0	11	8	8	0
Shimla	Kotkhai	Purag (137)	16	0	16	10	10	0
Shimla	Nerua	Up Mahal Manu (144/1)	17	0	17	10	10	0
Shimla	Kotkhai	Jaltahar (116)	18	0	18	10	10	0
Shimla	Nerua	Up Mahal Antrawali (179/2)	20	0	20	10	10	0
Shimla	Shimla	Shimla (M Corp.) - Ward No.4	20	0	20	10	10	0
Shimla	Tikar	Tikri (32)	20	0	20	10	10	0
Shimla	Nerua	Hud (62)	22	0	22	10	10	0
Shimla	Shimla ( Rural )	Dhar (264)	24	0	24	11	11	0
Shimla	Chirgaon	Chiroti (46)	29	0	29	11	11	0
Shimla	Rampur	Dawra (182)	30	0	30	11	11	0
Shimla	Chirgaon	Diswani (131)	32	0	32	11	11	0
Shimla	Nerua	Up Mahal Kanal (129/1)	33	0	33	11	11	0
Shimla	Theog	Barog (224)	39	0	39	12	12	0
Shimla	Cheta	Sanat (134)	57	0	57	12	12	0
Sirmaur	Nahan	Kathana (34)	18	0	18	10	10	0
Sirmaur	Paonta Sahib	Chichichei (84)	26	0	26	11	11	0
Sirmaur	Paonta Sahib	Bhaila (45)	35	0	35	11	11	0
Sirmaur	Paonta Sahib	Bangran (104)	48	0	48	12	12	0
Sirmaur	Renuka	Šangna (159)	61	0	61	12	12	0
Sirmaur	Renuka	Ungar Kando (92)	103	0	103	13	13	0
Solan	Baddi	Beh Kanaitan (428)	12	0	12	9	9	0
Solan	Arki	Ghiana (97)	14	0	14	9	9	0
Solan	Arki	Arki (NP) - Ward No.1	14	0	14	9	9	0
Solan	Arki	Manan (112)	17	0	17	10	10	0
Solan	Arki	Jamroti (382)	18	0	18	10	10	0
Solan	Solan	Anji (645)	21	0	21	10	10	0
Solan	Solan	Dangri (662)	23	0	23	11	11	0
Solan	Krishangarh	Kotla (505)	24	0	24	11	11	0
Solan	Solan	Nagali (597)	27	0	27	11	11	0
Solan	Kandaghat	Satrol (223)	33	0	33	11	11	0
Solan	Arki	Simla (350)	36	0	36	11	11	0
Solan	Solan	Burawari (267)	49	4	53	12	11	1
Solan	Solan	Basal (48)	94	0	94	13	13	0
Una	Tahlwal	Tahlwal (NP) - Ward No.6	4	15	19	10	2	8
Una	Una	Chak Khad (181)	38	0	38	12	12	0
Una	Amb	Ghanari Brahman Chahgan (130)	39	0	39	12	12	0
Una	Haroli	Dulehar (526)	45	0	45	12	12	0
Una	Amb	Thaplan (148)	56	0	56	12	12	0
		Total	3447	257	3704	1081	975	106

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 99  
Reserved Random Villages 0  
Total Samples

1081  
0  
1081

**BRU/SEROMON/NIVEDI/Jammu And Kashmir\_15/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 1276

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.039

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 84 (+2 Reserved villages)

Total No of Animals to be Sampled = 1092

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Anantnag	Dooru	Nusoo Badra Gund	126	0	126	13	13	0
Anantnag	Kokernag	KACHWAN	151	0	151	13	13	0
Anantnag	Pahalgam	Hassan Noor	195	0	195	13	13	0
Anantnag	Anantnag	Salia Ponchal Pora	323	0	323	13	13	0
Anantnag	Shangus	Uitarsoo	449	0	449	13	13	0
Anantnag	Kokernag	Nala Sund Brari	514	14	528	13	13	0
Badgam	Charar- E Shrief	DODKHATOO	112	0	112	13	13	0
Badgam	Khag	Sita Haran	122	0	122	13	13	0
Badgam	Khansahib	Rawal Pora Beerua	144	0	144	13	13	0
Badgam	Khansahib	Gund Ali Naik	168	0	168	13	13	0
Badgam	Khag	Shungli Pora	208	0	208	13	13	0
Badgam	Khag	Badran	213	0	213	13	13	0
Badgam	Khansahib	Shamas Abad (Later Chadura)	402	0	402	13	13	0
Bandipora	Sonawari	Bahar Abad (Amcha Kundal)	197	0	197	13	13	0
Bandipora	Bandipora	Nadihal	614	0	614	13	13	0
Baramulla	Pattan	Gosha Bugh	118	0	118	13	13	0
Baramulla	Pattan	Sheer Pora Bangil	145	0	145	13	13	0
Baramulla	Pattan	Siri Wara Pora	163	0	163	13	13	0
Baramulla	Sopore	Krank Shivan	167	0	167	13	13	0
Baramulla	Tangmarg	Taj Pora (Osan Bangil)	201	0	201	13	13	0
Baramulla	Sopore	Haigam	228	0	228	13	13	0
Baramulla	Tangmarg	Goni Pora	336	0	336	13	13	0
Baramulla	Rafiabad	Ruhama	401	0	401	13	13	0
Doda	Gandoh	Trithlu	162	0	162	13	13	0
Doda	Doda	Goddi	250	0	250	13	13	0
Doda	Doda	Charrote	309	0	309	13	13	0
Doda	Assar	Assar	540	0	540	13	13	0
Doda	Gandoh	Bhatyas	603	0	603	13	13	0
Ganderbal	Kangan	Anderwan	270	0	270	13	13	0
Ganderbal	Kangan	Chater Gul	380	0	380	13	13	0
Jammu	Jammu Municipal	Jammu (Corporation)	59	57	116	13	7	6
Jammu	Jammu	Aqil Pur	128	0	128	13	13	0
Jammu	Jammu	Drabi	73	56	129	13	7	6
Jammu	Ranbir Singh Pora	Sai Kalan	163	0	163	13	13	0
Jammu	Jammu	Domri	181	0	181	13	13	0
Jammu	Jammu	Tahra	187	0	187	13	13	0
Jammu	Ranbir Singh Pora	Gharana	268	0	268	13	13	0
Jammu	Ranbir Singh Pora	Badhyal Brahamana	322	0	322	13	13	0
Jammu	Jammu	Chhatha (Ct)	360	0	360	13	13	0
Jammu	Jammu	Aitham	496	0	496	13	13	0
Kathua	Bashohli	Sandar	114	5	119	13	12	1
Kathua	Kathua	Jagat Pur	89	80	169	13	7	6
Kathua	Bani	Dhaggar	203	0	203	13	13	0
Kathua	Bani	Bholri	205	0	205	13	13	0
Kathua	Billawar	Galak	252	0	252	13	13	0
Kathua*	Billawar	Dhamlar	285	0	285	13	13	0
Kathua	Billawar	Buggan	1167	0	1167	13	13	0
Kishtwar	Marwah	Chanjer	296	0	296	13	13	0
Kishtwar	Kishtwar	Keshwan	395	0	395	13	13	0
Kulgam	Kulgam	Bogurd	194	0	194	13	13	0
Kulgam	Dambal Hanipora	Kotamarag	232	0	232	13	13	0
Kulgam	Dambal Hanipora	Awil	251	0	251	13	13	0
Kupwara	Karnah	Kohmagabra	165	0	165	13	13	0
Kupwara	Karnah	Gund Gujra	189	0	189	13	13	0
Kupwara	Handwara	Sarmarg	216	0	216	13	13	0
Kupwara	Kupwara	Drug Mulla (Ct)	324	0	324	13	13	0
Kupwara	Kupwara	Khurhama	716	0	716	13	13	0
Poonch	Haveli	Degwar Maldaivalan	195	0	195	13	13	0
Poonch	Mandi	Loran	934	0	934	13	13	0
Pulwama	Tral	Dadh Sara	131	0	131	13	13	0

Pulwama	Pulwama	Bilowoder Gund	140	0	140	13	13	0
Pulwama	Pulwama	Qasba Yar	154	0	154	13	13	0
Pulwama	Pulwama	Sanger Wani	218	0	218	13	13	0
Pulwama	Pulwama	Litar Shitar	308	0	308	13	13	0
Rajauri	Sunderbani	Thanda Pani	128	0	128	13	13	0
Rajauri	Sunderbani	Thangrot	167	0	167	13	13	0
Rajauri	Budhal	Kewal	172	0	172	13	13	0
Rajauri	Nowshehra	Dharat	321	88	409	13	10	3
Rajauri *	Sunderbani	Bhajwal	657	0	657	13	13	0
Ramban	Banihal	Chanchloo	290	0	290	13	13	0
Ramban	Banihal	Chak Narwah (Chakwah)	1356	0	1356	13	13	0
Reasi	Reasi	Marhi (Ct)	211	0	211	13	13	0
Reasi	Gool-Gulabgarh	Larh	203	189	392	13	7	6
Samba	Samba	Deawan	147	0	147	13	13	0
Samba	Samba	Jatwal	158	0	158	13	13	0
Samba	Samba	Chani Mansar	148	15	163	13	12	1
Samba	Samba	Mean Charkah	187	0	187	13	13	0
Samba	Samba	Mean Sarkar	218	0	218	13	13	0
Shopian	Shopian	Reshnagri	181	0	181	13	13	0
Shopian	Shopian	Awnera	208	0	208	13	13	0
Udhampur	Udhampur	Sen Brahmana	155	0	155	13	13	0
Udhampur	Udhampur	Rehambal (Ct)	183	0	183	13	13	0
Udhampur	Chenani	Sarabd Kirpalt (Sarat Karmalat)	221	0	221	13	13	0
Udhampur	Basantgarh	Ladhra	257	0	257	13	13	0
Udhampur	Chenani	Jakhad	626	0	626	13	13	0
Srinagar	Srinagar (North)	Chatrihama	275	0	275	13	13	0
		Total	24290	504	24794	1118	1089	29

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages (epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring (post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in India

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 84  
Reserved Random Villages 2  
Total Samples

1092  
26  
1118

**BRU/SEROMON/NIVEDI/Jharkhand\_16/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 2402

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.028

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 118 (+3 Reserved villages)

Total No of Animals to be Sampled = 1534

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Bokaro	Chas	WARD 46 ( SECTOR 12 )	219	121	340	13	8	5
Bokaro	Chas	Khamarbandi	517	240	757	13	9	4
Chatra	Kunda	Bhurba	132	0	132	13	13	0
Chatra	Gidhaur	Barta	156	0	156	13	13	0
Chatra	Shaligram Ram Narayanpur(Hunterganj)	Pandepur Khurd	185	7	192	13	13	0
Chatra	Lawalaung	Kanti Alias Mandhania	238	0	238	13	13	0
Chatra	Shaligram Ram Narayanpur(Hunterganj)	Kashikewal	403	0	403	13	13	0
Deoghar	Sarwan	Behrakanari	108	0	108	13	13	0
Deoghar	Mohanpur	Nokhil	81	39	120	13	9	4
Deoghar	MADHUPUR	Madhupur (M) - Ward No.21	143	0	143	13	13	0
Deoghar	Karon	Baghadih	160	0	160	13	13	0
Deoghar	Karon	Ganjebari	165	0	165	13	13	0
Deoghar	Mohanpur	Lorhia	178	0	178	13	13	0
Deoghar	Sona Rai Tharhi	Sonaraythari	261	0	261	13	13	0
Deoghar	Sarath	Sarath	684	0	684	13	13	0
Dhanbad	Dhanbad	Dhanbad Municipal	122	24	146	13	11	2
Dhanbad	Baghmara-Cum-Katras	Bahera Kudar	166	0	166	13	13	0
Dhanbad	Gobindpur	Ghoramurga	185	0	185	13	13	0
Dhanbad	Dhanbad	Dhanbad Municipal	274	98	372	13	10	3
Dhanbad	Baliapur	Baliapur (Ct)	592	0	592	13	13	0
Dumka	Jama	Aguaia	112	0	112	13	13	0
Dumka	Ramgarh	Kusmha	126	0	126	13	13	0
Dumka	Jarmundi	Garda Amarkunda	155	1	156	13	13	0
Dumka	Ramgarh	Dudhua	177	0	177	13	13	0
Dumka *	Masalia	Ajmeri	185	0	185	13	13	0
Dumka	Jama	Udalkhap	214	0	214	13	13	0
Dumka	Saraiyahat	Amghata	219	0	219	13	13	0
Dumka	Shikaripara	Sonadhap	268	0	268	13	13	0
Dumka	Masalia	Tilbad	414	0	414	13	13	0
East Singhbhum	Ghatshila	Barakhursi	106	0	106	13	13	0
East Singhbhum	Baharagora	Kesharda	155	0	155	13	13	0
East Singhbhum	Chakulia	Metyabandi	175	0	175	13	13	0
East Singhbhum	JAMSHEDPUR	Jamshedpur (NA) - Ward No.157	145	71	216	13	9	4
East Singhbhum	Mango	Mango (NA) - Ward No.24	182	64	246	13	10	3
East Singhbhum	Mango	Mango (NA) - Ward No.15	264	12	276	13	12	1
East Singhbhum	Patamda	Bantoriya	293	0	293	13	13	0
East Singhbhum	Mango	Mango (NA) - Ward No.13	275	74	349	13	10	3
East Singhbhum	Ghatshila	Ghatshila	421	0	421	13	13	0
Garhwa	BARGARH	Ramar	217	0	217	13	13	0
Garhwa	Garhwa	Mahupi	857	0	857	13	13	0
Garhwa	Ranka	Dudhwal	913	0	913	13	13	0
Giridih	Deori	Kirko	100	16	116	13	11	2
Giridih *	Pirtanr	Pokharna	134	0	134	13	13	0
Giridih	Jamua	Dhurgargi	174	0	174	13	13	0
Giridih	Dumri	Pargo Talaiia	186	0	186	13	13	0
Giridih	Birmi	Madarkha	201	0	201	13	13	0
Giridih	Sariya	Bandikharo	291	0	291	13	13	0
Giridih	Bengabad	Fitkuria	423	0	423	13	13	0
Giridih	Bagodar	Antkadih	494	0	494	13	13	0
Giridih	Bagodar	Beko Ansh	765	9	774	13	13	0
Godda	Godda	Nonmati	104	0	104	13	13	0
Godda	Mahagama	Ghat Gamharia	177	0	177	13	13	0
Godda	Pathargama	Boharna	91	144	235	13	5	8
Godda	Boarjor	Jamunajharna	236	0	236	13	13	0
Godda	Godda	Godda (M) - Ward No.3	347	14	361	13	12	1
Godda	Bashant Rai*	Bisambhar Chak	533	0	533	13	13	0
Godda	Bashant Rai*	Lotha	561	0	561	13	13	0
Gumla	Kamdara	Konsa	170	0	170	13	13	0
Gumla	Albert Ekka(Jari)	Banjhar	200	0	200	13	13	0
Gumla	Champur	Chichhuwani	222	0	222	13	13	0

Hazaribagh	Barkagaon	Gondalpora	148	0	148	13	13	0
Hazaribagh	Barhi	Kharau	164	0	164	13	13	0
Hazaribagh	Chalkusa	Chaube	173	0	173	13	13	0
Hazaribagh	Barhi	Dhanwar	264	0	264	13	13	0
Hazaribagh	Chauparan	Hathia	328	0	328	13	13	0
Jamtara	Narayanpur	Bankudih	122	0	122	13	13	0
Jamtara	Jamtara	Jamtara NA Ward No.5	161	0	161	13	13	0
Jamtara	Nala	Sarbediya	179	0	179	13	13	0
Jamtara	Nala	Kharimali Rampur	207	0	207	13	13	0
Jamtara	Narayanpur	Chandadi Lakhampur	275	0	275	13	13	0
Khunti	Khunti	Gujora	164	0	164	13	13	0
Khunti	Murhu	Kudapurti	201	0	201	13	13	0
Khunti	Murhu	Gumpuru	158	48	206	13	10	3
Koderma	Jainagar	Khardidih	174	0	174	13	13	0
Koderma	Koderma	Karma (Ct)	236	0	236	13	13	0
Latehar	Balumath	Chetag	132	29	161	13	11	2
Latehar	Barwadih	Chhipadohar	209	0	209	13	13	0
Lohardaga	Lohardaga	Hendlaso	133	0	133	13	13	0
Lohardaga	Peshrar	Rorad	189	4	193	13	13	0
Pakur	Maheshpur	Arol	135	0	135	13	13	0
Pakur	Maheshpur	Lakhiram	176	0	176	13	13	0
Pakur	Litipara	Landepahar	204	0	204	13	13	0
Pakur	Maheshpur	Sahargaon	293	0	293	13	13	0
Pakur	Maheshpur	Radepur	279	65	344	13	11	2
Palamu	Hariharganj	Bhaurha	110	0	110	13	13	0
Palamu *	Bishrampur	Bishrampur(NA)-Ward No-17	134	2	136	13	13	0
Palamu	Bishrampur	Bishrampur(NA)-Ward No-15	187	0	187	13	13	0
Palamu	Bishrampur	Bishrampur(NA)-Ward No-13	150	42	192	13	10	3
Palamu	Chainpur	Neura	208	0	208	13	13	0
Palamu	Nawa Bazar	Chechanha	255	2	257	13	13	0
Palamu	Panda	Dala Kalan	348	0	348	13	13	0
Palamu	Patan	Kelhar	411	9	420	13	13	0
Ramgarh	Patratu	HANUMANGADI	170	0	170	13	13	0
Ramgarh	Ramgarh <sup>ra</sup>	Ward no-8	232	93	325	13	9	4
Ranchi	Angara	Agartoli	102	0	102	13	13	0
Ranchi	Chanho	Chaliyo	179	0	179	13	13	0
Ranchi	Bero	Dighiya	197	0	197	13	13	0
Ranchi	Iki	Tilaksuti	234	0	234	13	13	0
Ranchi	Burmu	Ginjohakurgaon	336	0	336	13	13	0
Ranchi	Ratu	Hehal	436	0	436	13	13	0
Sahebganj	Taljhari	Bara Talbana	86	17	103	13	11	2
Sahebganj	Sahibganj	Kishanparshad Oza <sup>ra</sup>	138	0	138	13	13	0
Sahebganj	Mandro	Chuna Khali	175	0	175	13	13	0
Sahebganj	Pathna	Atgawan	177	0	177	13	13	0
Sahebganj	Udha	Udha Diara	232	0	232	13	13	0
Sahebganj	Rajmahal	Narainpur Diara	956	0	956	13	13	0
Saraikela Kharsawan	Kochai	Pandakata	145	0	145	13	13	0
Saraikela Kharsawan	Saraikela	Mahitpur	158	0	158	13	13	0
Saraikela Kharsawan	Ichagarh	Kundrilang	187	0	187	13	13	0
Saraikela Kharsawan	Adityapur	Adityapur (NA) - Ward No.25	238	29	267	13	12	1
Saraikela Kharsawan	Chandil	Khuchidih	287	0	287	13	13	0
Simdega	Bano	Konsode	192	0	192	13	13	0
Simdega	Jallega	Lomboi	765	0	765	13	13	0
West Singhbhum	Gudri	Tumrung	124	0	124	13	13	0
West Singhbhum	Manoharpur	Thaikobad	140	0	140	13	13	0
West Singhbhum	Khuntpani	Bhoya	153	0	153	13	13	0
West Singhbhum	Jhinkpani	Jhinkpani (Ct)	153	0	153	13	13	0
West Singhbhum	Majhgaon	Adhakari	201	0	201	13	13	0
West Singhbhum	Jagannathpur	Bhanganw	204	0	204	13	13	0
West Singhbhum	Noamundi	Pateta	215	0	215	13	13	0
West Singhbhum	Tantnagar	Kheriantangar	1048	0	1048	13	13	0
		<b>Total</b>	<b>30618</b>	<b>1274</b>	<b>31892</b>	<b>1573</b>	<b>1516</b>	<b>57</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

**Abbreviations:**

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 118  
Reserved Random Villages 3  
Total Samples

1534  
39  
1573

**BRU/SEROMON/NIVEDI/Karnataka\_17/Phase-III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 2635

Animal Level Prevalence = 0.2 (Based on IInd phase data )

Cluster Level Prevalence = 0.026

Sensitivity of the test used = 0.90

Total No of Villages (Clusters) Selected = 127 (+7 Reseved villages)

Total No of Animals to be Sampled = 1651

DISTRICT_NAME(a)	TABSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo( e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Bagalkot	BELAGALI	Belagali (TP) - Ward No.6	96	99	195	13	6	7
Bagalkot	Mudhol	Junnur	182	65	247	13	10	3
Bagalkot	Jamkhandi	Teradal (Rural)	332	0	332	13	13	0
Bagalkot	Jamkhandi	Sasalatti	549	0	549	13	13	0
Bangalore Rural	Dod Ballapur	Hiremuddenahalli	117	0	117	13	13	0
Bangalore Rural	Dod Ballapur	Aroodi	125	0	125	13	13	0
Bangalore Rural	Devanahalli	Devanahalli (TMC) - Ward No.1	128	0	128	13	13	0
Bangalore Rural	Dod Ballapur	Maralenahalli	136	0	136	13	13	0
Bangalore Rural	Dod Ballapur	Neralaghatta	162	0	162	13	13	0
Belgaum	Sampgaon	Hoskoti	112	0	112	13	13	0
Belgaum*	Aithni	Avarkhod	142	0	142	13	13	0
Belgaum	Raybag	Katakabhavi	160	0	160	13	13	0
Belgaum	KABBUR	Kabbur-Ward No.11	58	108	166	13	5	8
Belgaum	Savadatti	Mugalihal	171	0	171	13	13	0
Belgaum	Shedbal	Shedbal- Ward No.16	44	170	214	13	3	10
Belgaum	Harugeri	Harugeri-Ward No.11	67	187	254	13	3	10
Belgaum	Aithni	Balligeri	172	215	387	13	6	7
Belgaum	Aithni	Kokatnoor	476	0	476	13	13	0
Belgaum	Gokak	Shindikurbet	309	258	567	13	7	6
Bellary	Hagaribommanahalli	Enigi	124	0	124	13	13	0
Bellary	Hagaribommanahalli	Seeganahalli	159	0	159	13	13	0
Bellary	Bellary	Shankarabanda	185	0	185	13	13	0
Bellary	Hagaribommanahalli	Bachigondanahalli	214	0	214	13	13	0
Bellary	Hagaribommanahalli	Thambrahalli	224	0	224	13	13	0
Bengaluru Urban	Bangalore South	Bangalore (M Corp.) - Ward No.130	112	13	125	13	12	1
Bengaluru Urban	Bangalore East	Bangalore (M Corp.) - Ward No.150	142	8	150	13	12	1
Bengaluru Urban*	Bangalore South	Cholanaikanahalli	160	0	160	13	13	0
Bengaluru Urban	Bangalore North	Harokyathanahalli	178	0	178	13	13	0
Bengaluru Urban	Bangalore East	Bangalore (M Corp.) - Ward No.149	265	0	265	13	13	0
Bidar	Bhalki	Yenkura	61	68	129	13	6	7
Bidar	Honnabad	Kodambal	145	0	145	13	13	0
Bidar	Basavakalyan	Sastapur	195	0	195	13	13	0
Bidar	Honnabad	Nirna	126	128	254	13	6	7
Bijapur	Bijapur	Nidoni	147	0	147	13	13	0
Bijapur	Sindgi	Somajal	93	73	166	13	7	6
Bijapur	Bijapur	Kakhandaki	322	0	322	13	13	0
Bijapur	Indi	Atharga	96	249	345	13	4	9
Chamarajanagar	Gundlupet	Kuthanur	120	0	120	13	13	0
Chamarajanagar	Gundlupet	Raghavapura	149	0	149	13	13	0
Chamarajanagar	Kollegal	P.G.Palya	195	0	195	13	13	0
Chamarajanagar	Kollegal	DODDANI	269	0	269	13	13	0
Chikballapur*	Sidlaghatta	Malamachanahalli	106	0	106	13	13	0
Chikballapur	Chikballapura	Madhurenahalli	114	0	114	13	13	0
Chikballapur	Gudibanda	Yellodu	126	0	126	13	13	0
Chikballapur	Gudibanda	Kariganathammanahalli	135	0	135	13	13	0
Chikballapur	Gauribidamur	Idagur	137	0	137	13	13	0
Chikballapur	Bagepalli	Chakavelu	247	0	247	13	13	0
Chikmagalur	Kadur	Sakrepatna	137	0	137	13	13	0
Chikmagalur	Narasimharajapura	Sankse	140	0	140	13	13	0
Chikmagalur	Koppa	Gunuvante	216	0	216	13	13	0
Chikmagalur	Chikmagalur	Devadana	248	0	248	13	13	0
Chitradurga	Chitradurga	Hireguntanur	120	0	120	13	13	0
Chitradurga	Hiriyur	Khandenahalli	142	0	142	13	13	0
Chitradurga	Chitradurga	Kolahal	155	0	155	13	13	0
Chitradurga	Hosdurga	Tandaga	177	0	177	13	13	0
Dakshin Kannad	Bantval	Veerakamba	191	0	191	13	13	0
Dakshin Kannad	Beltangadi	Puduvettu	554	0	554	13	13	0
Davangere	Davangere	Halebathi	128	0	128	13	13	0
Davangere	Honnali	Konanathale	168	0	168	13	13	0
Davangere	Harihar	Kadaramaikanahalli	246	0	246	13	13	0
Davangere	Harapanahalli	Chatnihalli	250	0	250	13	13	0



Dharwad*	Kalghatgi	Belavantra	145	0	145	13	13	0
Dharwad	Kalghatgi	Bammigatti	193	0	193	13	13	0
Gadag	Shirhatti	Chabbi	191	0	191	13	13	0
Gadag	Mundargi	Baradur	249	0	249	13	13	0
Gulbarga	Afzalpur	Afzalpur (TP) - Ward No.18	45	72	117	13	5	8
Gulbarga	Chincholi	Hodebeerahalli	158	0	158	13	13	0
Gulbarga	Aland	Hebli	111	63	174	13	8	5
Gulbarga	Chincholi	Chandankera	256	47	303	13	11	2
Gulbarga	Sedam	Malkhed (J)	648	0	648	13	13	0
Hassan	Arsikere	Moodnahalli	104	0	104	13	13	0
Hassan	Alur	Ryaba Kaval	120	0	120	13	13	0
Hassan	Arsikere	Mududi	135	9	144	13	12	1
Hassan	Arsikere	Kalyadi	148	0	148	13	13	0
Hassan	Hassan	Attavara Hosahalli	170	13	183	13	12	1
Hassan	Belur	Muthuganne	243	0	243	13	13	0
Hassan	Arsikere	Harnahalli *	281	0	281	13	13	0
Haveri	Hangal	Wardi	87	31	118	13	10	3
Haveri	Hirekerur	Yattinahalli-M-KOD	141	0	141	13	13	0
Haveri	Hirekerur	Arikatti	157	0	157	13	13	0
Haveri	Ranibennur	Hirebidari	165	216	381	13	6	7
Kodagu*	Somvarpet	Yelakanur	117	0	117	13	13	0
Kodagu	Somvarpet	Thorenur	362	0	362	13	13	0
Kolar	Mulbagal	Singebhalli	104	0	104	13	13	0
Kolar	Srinivaspur	Mudimadugu	106	0	106	13	13	0
Kolar	Bangarapet	Badamakanhalli	109	0	109	13	13	0
Kolar	Bangarapet	N.G. Hulkur	124	0	124	13	13	0
Koppal	Koppal	Indargi	164	0	164	13	13	0
Koppal	Gangawati	Waddarahatti (OG) - Ward No.32	47	175	222	13	3	10
Mandya	Malavalli	Thalagavadi	104	0	104	13	13	0
Mandya	Malavalli	Sujalur	113	0	113	13	13	0
Mandya	Maddur	Menasagere	142	0	142	13	13	0
Mandya	Shrirangapattana	Mundagadore	147	0	147	13	13	0
Mandya	Maddur	Chikkarasinakere	150	0	150	13	13	0
Mandya	Shrirangapattana	Tadagavadi	191	0	191	13	13	0
Mysore	Heggadavankote	K.Belthur	110	0	110	13	13	0
Mysore	Nanjangud	Kadajetti	126	2	128	13	13	0
Mysore	Hunsur	Uddurkaval	149	0	149	13	13	0
Mysore	Krishnarajanagara	Karthalu	166	0	166	13	13	0
Mysore	Nanjangud	Kugalur	175	0	175	13	13	0
Mysore	Mysore	Koorgalli (Ct)	207	0	207	13	13	0
Raichur	Lingsugur	Machanur	122	0	122	13	13	0
Raichur	Manvi	Manvi (TMC) - Ward No.19	45	98	143	13	4	9
Raichur *	Raichur	Garaldinni	155	0	155	13	13	0
Raichur	Sindhur	Walkamdinni	204	0	204	13	13	0
Raichur	Devadurga	Jalhalli	212	0	212	13	13	0
Ramanagara	Kanakapura	Horlagallu	157	0	157	13	13	0
Ramanagara	Ramanagara	Doddagangawadi	187	24	211	13	12	1
Shimoga	Sorab	Bennigere	104	0	104	13	13	0
Shimoga	Hosanagara	Khyrugundha	124	0	124	13	13	0
Shimoga	Tirthahalli	Kasaravalli	134	0	134	13	13	0
Shimoga	Sagar	Nadakalasi	150	0	150	13	13	0
Shimoga	Bhadravati	Balemanahalli	164	0	164	13	13	0
Shimoga	Bhadravati	Singanamane	182	0	182	13	13	0
Shimoga	Hosanagara	Benavalli	302	0	302	13	13	0
Tumkur	Chiknayakanhalli	Hoisalakatte	109	0	109	13	13	0
Tumkur	Chiknayakanhalli	Bellara	123	0	123	13	13	0
Tumkur	Sira	Seebi Agrahara	124	0	124	13	13	0
Tumkur	Tumakuru	Tumkur (CMC) - Ward No.23	100	33	133	13	10	3
Tumkur	Gubbi	Alalaghatta	142	0	142	13	13	0
Tumkur	Pavagada	Madde	170	0	170	13	13	0
Tumkur	Pavagada	Mangalavada	310	0	310	13	13	0
Tumkur	Chiknayakanhalli	Dasudi	256	63	319	13	10	3
Udupi	Karkal	Nooralbetu	316	0	316	13	13	0
Udupi	Karkal	Nadpalu	389	0	389	13	13	0
Uttar Kannad*	Yellapur	Malakoppa	105	0	105	13	13	0
Uttar Kannad	Siddapur	Siddapur (TP) - Ward No.4	82	42	124	13	9	4
Uttar Kannad	Honavar	Mugwa	134	0	134	13	13	0
Uttar Kannad	Mundgod	Yerebail	148	0	148	13	13	0
Uttar Kannad	Honavar	Kota	157	41	198	13	10	3
Uttar Kannad	Yellapur	Madnur	219	0	219	13	13	0
Uttar Kannad	Honavar	Salkod	574	29	603	13	12	1

Yadgir	Shorapur	Shorapur (TMC) - Ward No.1	91	54	145	13	8	5
Yadgir	Kekker	Kekker (TP) - Ward No.23	139	116	255	13	7	6
		Total	23546	2769	26315	1742	1588	154

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 127  
Reserved Random Villages 7  
Total Samples

1651  
91  
1742

**BRU/SEROMON/NIVEDI/Kerala\_18/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 10225

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.036

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 96

Total No of Animals to be Sampled = 1020 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Alappuzha	Karthikappally	Krishnapuram(GP)OC0WardNo.4	16	0	16	10	10	0
Alappuzha	Kuttanad	Thakazhy(GP)OC0WardNo.2	16	2	18	10	9	1
Alappuzha	Cherthala	Pattanakkad(GP)OC0WardNo.13	22	0	22	10	10	0
Alappuzha	Ambalappuzha	MararikulamSouth(GP)OC0WardNo.2	25	0	25	11	11	0
Alappuzha	Karthikappally	Cheppad(GP)OC0WardNo.9	29	0	29	11	11	0
Alappuzha	Mavelikkara	Chetikulangara(GP)OC0WardNo.16	31	0	31	11	11	0
Ernakulam	Kunnathunad	Koovappady(GP)OC0WardNo.1	11	0	11	8	8	0
Ernakulam	Kothamangalam	Pothanickad(GP)OC0WardNo.9	17	0	17	10	10	0
Ernakulam	Kunnathunad	Vazhukulam(GP)OC0WardNo.17	22	0	22	10	10	0
Ernakulam	Kunnathunad	Okkal(GP)OC0WardNo.10	23	0	23	11	11	0
Ernakulam	Kunnathunad	Mazhuvannoor(GP)OC0WardNo.18	26	0	26	11	11	0
Ernakulam	Kunnathunad	Thiruvaniyoor(GP)OC0WardNo.7	33	0	33	11	11	0
Ernakulam	Kunnathunad	Koovappady(GP)OC0WardNo.12	34	0	34	11	11	0
Ernakulam	Muvattupuzha	Maneed(GP)OC0WardNo.5	43	0	43	12	12	0
Ernakulam	Kunnathunad	Asamannoor(GP)OC0WardNo.12	73	0	73	12	12	0
Idukki	Thodupuzha	Manakkad(GP)OC0WardNo.5	23	0	23	11	11	0
Idukki	Thodupuzha	Kodikkulam(GP)OC0WardNo.13	31	0	31	11	11	0
Idukki	Idukki	Kanchiyar(GP)OC0WardNo.14	41	0	41	12	12	0
Idukki	Idukki	Kamakshy(GP)OC0WardNo.5	52	0	52	12	12	0
Idukki	Peerumade	Vandiperiyar(GP)OC0WardNo.1	61	0	61	12	12	0
Kannur	Iritty	Muzhakkunnu(GP)OC0WardNo.10	11	0	11	8	8	0
Kannur	Kannur	Cheruthazham I (GP)OC0WardNo.15	15	0	15	9	9	0
Kannur	Taliparamba	Chapparapadavuu(GP)OC0WardNo.11	24	0	24	11	11	0
Kannur	Taliparamba	Alakode(GP)OC0WardNo.17	28	0	28	11	11	0
Kannur	Iritty	Kelakam(GP)OC0WardNo.8	29	0	29	11	11	0
Kannur	Taliparamba	Kankol-Alapsadambu(GP)OC0WardNo.11	37	0	37	11	11	0
Kannur	Iritty	Padiyoor-Kalliad(GP)OC0WardNo.11	46	0	46	12	12	0
Kannur	Iritty	Ulikkal(GP)OC0WardNo.3	50	1	51	12	12	0
Kasaragod	Kanhangad	MARAKKAPPU KADAPPURAM	31	0	31	11	11	0
Kasaragod	Manjeswaram	Puthige(GP)OC0WardNo.9	42	0	42	12	12	0
Kasaragod	Kasaragod	Kattikkol(GP)OC0WardNo.3	45	0	45	12	12	0
Kollam	Kottarakkara	Kadakkal(GP)OC0WardNo.2	12	0	12	9	9	0
Kollam	Pathanapuram	PattazhyVadakkkekara(GP)OC0WardNo.12	15	0	15	9	9	0
Kollam	Kollam	Thrikkaruvai(GP)OC0WardNo.6	26	0	26	11	11	0
Kollam	Kottarakkara	Velinalloor(GP)OC0WardNo.4	27	0	27	11	11	0
Kollam	Kollam	Sakthikulangara	29	0	29	11	11	0
Kollam	Karunagappally	Clappam(GP)OC0WardNo.15	31	0	31	11	11	0
Kollam	Kollam	Kalluvathukkal(GP)OC0WardNo.6	44	0	44	12	12	0
Kottayam	Vaikom	Velloor(GP)OC0WardNo.16	12	0	12	9	9	0
Kottayam	Kanjirappally	Chirakkadavu(GP)OC0WardNo.2	15	0	15	9	9	0
Kottayam	Kanjirappally	Parathode(GP)OC0WardNo.11	20	0	20	10	10	0
Kottayam	Kottayam	Ayarkumam(GP)OC0WardNo.12	20	1	21	10	10	0
Kottayam	Vaikom	Njezhoor(GP)OC0WardNo.1	26	0	26	11	11	0
Kottayam	Changanassery	Vazhoor(GP)OC0WardNo.13	40	0	40	12	12	0
Kottayam	Meenachil	Kidangoor(GP)OC0WardNo.1	62	0	62	12	12	0
Kozhikode	Vatakara	Valayam(GP)OC0WardNo.14	13	0	13	9	9	0
Kozhikode	Vatakara	Puramery(GP)OC0WardNo.17	14	0	14	9	9	0
Kozhikode	Vatakara	Kayakkodi(GP)OC0WardNo.2	21	0	21	10	10	0
Kozhikode	Koyilandi	Ulliyeri(GP)OC0WardNo.16	24	0	24	11	11	0
Kozhikode	Koyilandi	Koothali(GP)OC0WardNo.8	26	0	26	11	11	0
Kozhikode	Vatakara	Thiruvallur(GP)OC0WardNo.11	72	0	72	12	12	0
Kozhikode	Koyilandi	Nochad(GP)OC0WardNo.7	85	0	85	12	12	0
Kozhikode	Koyilandi	Cheruvannoor(GP)OC0WardNo.14	104	0	104	13	13	0
Malappuram	Ernad	Anakkayam(GP)OC0WardNo.3	10	1	11	8	7	1
Malappuram	Tirur	Thirunavaya(GP)OC0WardNo.1	14	0	14	9	9	0
Malappuram	Tirurangadi	Kottavalakkad	14	0	14	9	9	0
Malappuram	Ernad	Trikkalangode(GP)OC0WardNo.18	18	0	18	10	10	0
Malappuram	Perinthalmanna	Aliparamba(GP)OC0WardNo.21	18	0	18	10	10	0
Malappuram	Kondotty	Pallikkal(GP)OC0WardNo.4	18	0	18	10	10	0
Malappuram	Parappanangadi	Ullanam North	25	0	25	11	11	0

Malappuram	Nilambur	Kalikavu(GP)ÓÇöWardNo.9	30	0	30	11	11	0
Malappuram	Ernad	Pandikkad(GP)ÓÇöWardNo.8	31	0	31	11	11	0
Malappuram	Nilambur	Chaliyar(GP)ÓÇöWardNo.1	43	0	43	12	12	0
Palakkad	Alathur	Vandazhi(GP)ÓÇöWardNo.9	11	0	11	8	8	0
Palakkad	Ottappalam	Nellaya(GP)ÓÇöWardNo.3	20	0	20	10	10	0
Palakkad	Mannarkad	Kottoppadam(GP)ÓÇöWardNo.5	26	0	26	11	11	0
Palakkad	Alathur	Vadakkancheri(GP)ÓÇöWardNo.5	33	0	33	11	11	0
Palakkad	Ottappalam	Vellinezhi(GP)ÓÇöWardNo.9	33	0	33	11	11	0
Palakkad	Chittur	Kozhinjampara(GP)ÓÇöWardNo.7	46	0	46	12	12	0
Palakkad	Chittur	Vadakarapathy(GP)ÓÇöWardNo.4	50	0	50	12	12	0
Palakkad	Ottappalam	Sreekrishnapuram(GP)ÓÇöWardNo.11	50	0	50	12	12	0
Palakkad	Chittur	Kozhinjampara(GP)ÓÇöWardNo.6	85	0	85	12	12	0
Pathanamthitta	Kozhenchery	Mezhuveli(GP)ÓÇöWardNo.2	18	0	18	10	10	0
Pathanamthitta	Adoor	Kadampadanu(GP)ÓÇöWardNo.15	19	0	19	10	10	0
Pathanamthitta	Adoor	PandalamThekkekara(GP)ÓÇöWardNo.6	20	0	20	10	10	0
Pathanamthitta	Kozhenchery	Kulanada(GP)ÓÇöWardNo.12	28	0	28	11	11	0
Pathanamthitta	Konni	Vallicode(GP)ÓÇöWardNo.5	30	0	30	11	11	0
Thiruvananthapuram	Kattakkada	Ottashekaramangalam(GP)ÓÇöWardNo.12	11	0	11	8	8	0
Thiruvananthapuram	Chirayinkeezhu	Pazhayakunnummel(GP)ÓÇöWardNo.7	17	0	17	10	10	0
Thiruvananthapuram	Varkala	Ottor(GP)ÓÇöWardNo.5	19	0	19	10	10	0
Thiruvananthapuram	Nedumangad	Karakulam(GP)ÓÇöWardNo.3	21	0	21	10	10	0
Thiruvananthapuram	Nedumangad	Pangode(GP)ÓÇöWardNo.17	22	0	22	10	10	0
Thiruvananthapuram	Nedumangad	Namiyode(GP)ÓÇöWardNo.1	24	0	24	11	11	0
Thiruvananthapuram	Neyyattinkara	Karode(GP)ÓÇöWardNo.16	29	0	29	11	11	0
Thiruvananthapuram	Neyyattinkara	Kottukal(GP)ÓÇöWardNo.18	36	0	36	11	11	0
Thrissur	Talappilly	Velur(GP)ÓÇöWardNo.8	12	0	12	9	9	0
Thrissur	Kodungallur	Edavilangu(GP)ÓÇöWardNo.5	14	0	14	9	9	0
Thrissur	Mukundapuram	Alagappanagar(GP)ÓÇöWardNo.5	19	0	19	10	10	0
Thrissur	Talappilly	Kandanassery(GP)ÓÇöWardNo.6	20	0	20	10	10	0
Thrissur	Mukundapuram	Vellookkara(GP)ÓÇöWardNo.4	21	0	21	10	10	0
Thrissur	Talappilly	Mullurkara(GP)ÓÇöWardNo.11	26	0	26	11	11	0
Thrissur	Talappilly	Pazhayannur(GP)ÓÇöWardNo.12	29	0	29	11	11	0
Thrissur	Chalakkudy	Kodakara(GP)ÓÇöWardNo.8	33	0	33	11	11	0
Thrissur	Talappilly	Desamangalam(GP)ÓÇöWardNo.2	36	0	36	11	11	0
Wayanad	Sulthanbathery	Mullankolly(GP)ÓÇöWardNo.9	44	0	44	12	12	0
Wayanad	Sulthanbathery	Noolpuzha(GP)ÓÇöWardNo.7	86	3	89	12	12	0
		Total	2934	8	2942	1020	1018	2

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in India

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 96  
Reserved Random Villages 0  
Total Samples

1020  
0  
1020

**BRU/SEROMON/NIVEDI/Ladakh\_40/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 112

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.085

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 34

Total No of Animals to be Sampled = 394 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Kargil	Shanker Chiktan	Samrah	24	0	24	11	11	0
Kargil	Kargil	Thrangos	31	0	31	11	11	0
Kargil	Shanker Chiktan	Skambo	38	0	38	12	12	0
Kargil	Sankoo	Pranti	40	0	40	12	12	0
Kargil	Sankoo	Kochik	49	0	49	12	12	0
Kargil	Kargil	Lahung	60	0	60	12	12	0
Kargil	Kargil	Sapi	61	0	61	12	12	0
Kargil	Sankoo	Kargi	65	0	65	12	12	0
Kargil	DRASS	Mushku	67	0	67	12	12	0
Kargil	Kargil	Shimsha	67	0	67	12	12	0
Kargil	DRASS	Kharbu	76	0	76	12	12	0
Kargil	Kargil	Kaksar	86	0	86	12	12	0
Kargil	Zaskar	Seni	101	0	101	13	13	0
Kargil	Zaskar	Hamling	110	0	110	13	13	0
Kargil	Kargil	Tronjen (Trankuchan)	110	0	110	13	13	0
Kargil	Sankoo	Farona	113	0	113	13	13	0
Kargil	Zaskar	Tonrian Thagan	161	0	161	13	13	0
Kargil	Sankoo	Gund Mangl Pur	215	0	215	13	13	0
Kargil	Zaskar	Zangla	337	0	337	13	13	0
Leh Ladakh	Leh	Ney	13	0	13	9	9	0
Leh Ladakh	Nubra	Skuru	13	0	13	9	9	0
Leh Ladakh	Leh	Liktse	17	0	17	10	10	0
Leh Ladakh	Leh	Upshi	17	0	17	10	10	0
Leh Ladakh	Khalsi	Damkhar	20	0	20	10	10	0
Leh Ladakh	Leh	Kerey	25	0	25	11	11	0
Leh Ladakh	Leh	Tarchit	26	0	26	11	11	0
Leh Ladakh	Leh	Leh (NAC) - Ward No.4	27	0	27	11	11	0
Leh Ladakh	Leh	Shachokol	29	0	29	11	11	0
Leh Ladakh	Nubra	Digger	29	0	29	11	11	0
Leh Ladakh	Leh	Stakna	33	0	33	11	11	0
Leh Ladakh	Nubra	Skampuk	34	0	34	11	11	0
Leh Ladakh	Leh	Leh (NAC) - Ward No.3	38	0	38	12	12	0
Leh Ladakh	Leh	Leh (NAC) - Ward No.6	40	0	40	12	12	0
Leh Ladakh	Leh	Chushul	43	0	43	12	12	0
Leh Ladakh	Leh	Leh (NAC) - Ward No.2	44	0	44	12	12	0
Leh Ladakh	Leh	Nang	58	0	58	12	12	0
Leh Ladakh	Leh	Durbok	69	0	69	12	12	0
Leh Ladakh	Leh	Leh (NAC) - Ward No.1	92	0	92	13	13	0
		Total	2215	0	2215	394	394	0

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in india

## Abbreviations:

a: District Name

b: Tahsil Name

c: Village Name

d: under\_1year\_Fcattle

e: under\_1year\_Fbuffalo

f: under\_1year\_Fbovine

g: Number of units to Sample

h: Cattle Proportion

i: Buffalo Proportion

Random Villages 34

Reserved Random Villages 0

Total Samples

394

0

394

**BRU/SEROMON/NIVEDI/Madhya Pradesh\_20/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 5475

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.024

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 137

Total No of Animals to be Sampled = 1781 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
AGAR MALWA	Sasner	Soyat Khurd	154	263	417	13	5	8
ALIRAJPUR	Sondwa	Kakrana	108	62	170	13	8	5
ALIRAJPUR	Jobat	Chamar Begda	438	0	438	13	13	0
ANUPPUR	Anuppur	Duikhat	174	0	174	13	13	0
ANUPPUR	Anuppur	Latar	296	0	296	13	13	0
ASHOKNAGAR	Mungaoli	Bawrod	169	0	169	13	13	0
ASHOKNAGAR	Mungaoli	Gundheru	206	0	206	13	13	0
BALAGHAT	Lalbarra	Garra (CT)	132	0	132	13	13	0
BALAGHAT	Malajkhand	Malajkhand (M) - Ward No.22	167	21	188	13	12	1
BARWANI	Sendhwa	Jhapadipadla	91	56	147	13	8	5
BARWANI	Rajpur	Rajpur (NP) - Ward No.5	122	129	251	13	6	7
BETUL	Ghoda Dongri	Ghoda Dongri Ryt (CT)	153	0	153	13	13	0
BETUL	Betul	Bhadus	298	0	298	13	13	0
BETUL	Muhai	Chhindkheda (Sindkheda)	301	254	555	13	7	6
BHIND	Mihona	Mihona (NP) - Ward No.7	89	122	211	13	5	8
BHIND	Gohad	Pali(Dirman)	297	0	297	13	13	0
BHOPAL	Berasia	Dhamarra	198	0	198	13	13	0
BHOPAL	Bhopal	Bhopal (M Corp.) - Ward No.26	982	365	1347	13	9	4
BURHANPUR	Burhanpur	Burhanpur (M Corp.) - Ward No.4	85	117	202	13	5	8
CHHATARPUR	Maharajpur	Kurraha	185	0	185	13	13	0
CHHATARPUR	Laundi	Sijae	235	0	235	13	13	0
CHHATARPUR	Nowgong	Kararaganj	109	275	384	13	4	9
CHHINDWARA	Chaurai	Dilawar Mohgaon	103	0	103	13	13	0
CHHINDWARA	Chhindwara	Chhindwara (M) Ward No. 22	80	62	142	13	7	6
CHHINDWARA	Amarwara	Barah Hira	155	0	155	13	13	0
CHHINDWARA	Tamia	Godalpani Urf Pipardar	165	0	165	13	13	0
CHHINDWARA	Chaurai	Samaswada	220	0	220	13	13	0
CHHINDWARA	Harrai	Nachna	246	0	246	13	13	0
DAMOH	Tendukheda	Pondi Taradehi	194	0	194	13	13	0
DAMOH	Patharia	Nandrai	281	0	281	13	13	0
DAMOH	Patharia	Sita Nagar	358	0	358	13	13	0
DATA	Seondha	Hetampura	45	122	167	13	4	9
DATA	Seondha	Marsenibuzung	240	0	240	13	13	0
DEWAS	Sonkatch	Khunkheda	179	0	179	13	13	0
DEWAS	Karnawad	Karnawad (NP) - Ward No.15	196	233	429	13	6	7
DEWAS	Khategaon	Ameli	572	0	572	13	13	0
DHAR	Badnawar	Muraдка	157	0	157	13	13	0
DHAR	Dhar	Ahu	223	0	223	13	13	0
DHAR	Pithampur	Pithampur (NP) - Ward No.27	220	7	227	13	13	0
DINDORI	Dindori	Vikrampur Ryt.	158	0	158	13	13	0
DINDORI	Dindori	Kiwati Mal.	100	89	189	13	7	6
EAST NIMAR	Harsud	Bhawaniya Ryt	162	0	162	13	13	0
EAST NIMAR	Harsud	Barud Mal	195	0	195	13	13	0
GUNA	Guna	Khutiyawad	148	50	198	13	10	3
GUNA	Guna	Tarawta	450	0	450	13	13	0
GUNA	Guna	Guna (M) - Ward No.37	244	210	454	13	7	6
GWALIOR	Dabra	Dabra (M) - Ward No.2	44	132	176	13	3	10
GWALIOR	Gwalior	Gwalior (M Corp.) - Ward No.15	167	154	321	13	7	6
HARDA	Rehagaon	Rawang	163	0	163	13	13	0
HARDA	Sirali	Jinwanya	255	0	255	13	13	0
HOSHANGABAD	Pipariya	Pachlawara	160	0	160	13	13	0
HOSHANGABAD	Babai	Kotgaon	292	0	292	13	13	0
INDORE	Sawer	Khalkhala	175	0	175	13	13	0
INDORE	Depalpur	Limbodapar	100	121	221	13	6	7
JABALPUR	Majholi	Talad	113	57	170	13	9	4
JABALPUR	Panagar	Kandrakheda	376	995	1371	13	4	9
JHABUA	Meghnagar	Sajeli Surji Mogjisath	184	0	184	13	13	0
JHABUA	Thandla	Madalda	497	264	761	13	8	5
KATNI	Barhi	Khanna Banjari	206	0	206	13	13	0
KATNI	Murwara - Katni	Murwara (Katni) (M Corp.) - Ward	137	90	227	13	8	5

KHARGONE	Khargone	Unbujurg	177	0	177	13	13	0
KHARGONE	Barwaha	Mardana	290	0	290	13	13	0
KHARGONE	Maheshwar	Choli	377	0	377	13	13	0
MANDLA	Narayanganj	Bhata Dungiya Ryt.	142	0	142	13	13	0
MANDLA	Nainpur	Gaura Chhpar	156	0	156	13	13	0
MANDLA	Mandla	Limarua	167	0	167	13	13	0
MORENA	Morena	Morena (M) - Ward No.35	28	183	211	13	2	11
MORENA	Morena	Dhanela	153	233	386	13	5	8
Mandsaur	Daloda	Akya Umaheda	181	0	181	13	13	0
Mandsaur	Garoth	Sathkheda	270	0	270	13	13	0
NARSINGHPUR	Salechoka	Salechoka (NP) - Ward No.15	93	56	149	13	8	5
NARSINGHPUR	Kareli	Kerpani [Narmadaghat]	486	0	486	13	13	0
NEEMUCH	Manasa	Dhakani	179	0	179	13	13	0
NEEMUCH	Jawad	Bawalnai	422	456	878	13	6	7
PANNA	Devendranagar	Samana	105	82	187	13	7	6
PANNA	Raipura	Raiya Sata	385	0	385	13	13	0
RAISEN	Udaipura	Dholshri	153	0	153	13	13	0
RAISEN	Udaipura	Bambori Bhuwari	190	31	221	13	11	2
RAISEN	Beganganj	Siltara	287	0	287	13	13	0
RAJGARH	Narsinggarh	Jamonia Johar	128	0	128	13	13	0
RAJGARH	Jirapur	Jhadmau	143	0	143	13	13	0
RAJGARH	Rajgarh	Muraria	23	142	165	13	2	11
RAJGARH	Biaora	Peepal Heda	63	167	230	13	4	9
RAJGARH	Jirapur	Bangpura	17	394	411	13	1	12
RATLAM	Ratlam	Bodina	198	0	198	13	13	0
RATLAM	Piploda	Bargarh	75	149	224	13	4	9
RATLAM	Piploda	Mawta	244	0	244	13	13	0
REWA	Huzur	Sonara	76	27	103	13	10	3
REWA	Sirmour	Bedhauwa	125	0	125	13	13	0
REWA	Sirmour	Belwa Sursari Singh	169	0	169	13	13	0
REWA	Jawa	Bareti Kalan	205	0	205	13	13	0
REWA	Mangawan	Ulahi Khurd	254	0	254	13	13	0
REWA	Semaria	Baghara	285	0	285	13	13	0
REWA	Huzur	Chhijwar	227	108	335	13	9	4
SAGAR	Khurai	Khimlasa	406	0	406	13	13	0
SAGAR	Banda	Besli	159	0	159	13	13	0
SAGAR	Garhakota	Tal Semara	167	0	167	13	13	0
SAGAR	Garhakota	Pipariya Ahir	132	49	181	13	9	4
SAGAR	Rehli	Rehli (M) - Ward No.2	188	32	220	13	11	2
SAGAR	Sagar	Rajauya	271	0	271	13	13	0
SATNA	Unchahara	Korwara	171	107	278	13	8	5
SATNA	Birsinghpur	Pagar Khurd	349	0	349	13	13	0
SATNA	Amarpatan	Raikwar	122	0	122	13	13	0
SATNA	Majhgawan	Hiraundi	159	0	159	13	13	0
SATNA	Rampur Baghelan	Beernai	129	54	183	13	9	4
SATNA	Amarpatan	Kalla	330	0	330	13	13	0
SATNA	Amarpatan	Tyondhari	461	278	739	13	8	5
SEHORE	Budni	Holipura	210	0	210	13	13	0
SEHORE	Ashta	Titoriya	258	0	258	13	13	0
SEONI	Lakhmadon	Khamariya Gosai	146	0	146	13	13	0
SEONI	Seoni	Kanhiwada	632	0	632	13	13	0
SHAHDOL	Sobagpur	Chuhira	154	0	154	13	13	0
SHAHDOL	Jaisingmagar	Kuvara	205	56	261	13	10	3
SHAJAPUR	Polaya Kalan	Barodrani	236	0	236	13	13	0
SHAJAPUR	Kalapipal	Ghatti Mukhtyarpur	358	0	358	13	13	0
SHEOPUR	Karahal	Patargarh	235	0	235	13	13	0
SHEOPUR	Badoda	Kalmunda	297	0	297	13	13	0
SHIVPURI	Shivpuri	Shivpuri (M) - Ward No.1	107	80	187	13	7	6
SHIVPURI	Badarwas	Edwara	198	0	198	13	13	0
SHIVPURI	Badarwas	Sigharai	328	0	328	13	13	0
SIDHI	Churhat	Koshta Kothar	178	0	178	13	13	0
SIDHI	Churhat	Tikat Kalan	351	0	351	13	13	0
SINGRAULI	Deosar	Jhakarawal	225	0	225	13	13	0
SINGRAULI	Chitrangi	Chatari	569	0	569	13	13	0
TIKAMGARH	Niwari	Patharam	216	0	216	13	13	0
TIKAMGARH	Palera	Laroun	219	0	219	13	13	0
TIKAMGARH	Palera	Uprarakhas	177	228	405	13	6	7
UJJAIN	Badnagar	Maswadiyadhar	156	0	156	13	13	0
UJJAIN	Ujjain	Ujjain (M Corp.) - Ward No.2	310	18	328	13	12	1
UJJAIN	Nagda	Heedi	187	210	397	13	6	7
UMARIA	Manpur	Podiya	223	0	223	13	13	0

UMARIA	Bandhgarh	Kachharwar	246	13	259	13	12	1
VIDISHA	Nateran	Dighoni	123	0	123	13	13	0
VIDISHA	Lateri	Barkheda Dhannu	60	66	126	13	6	7
VIDISHA	Shamshabad	Sangul	158	0	158	13	13	0
VIDISHA	Vidisha	Dhamnoda	179	0	179	13	13	0
VIDISHA	Tyonda	Bisanpar	229	0	229	13	13	0
		Total	29636	7469	37105	1781	1498	283

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 137  
Reserved Random Villages 0  
Total Samples

1781  
0  
1781



**BRU/SEROMON/NIVEDI/Maharashtra\_21/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 18452

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.027

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 121

Total No of Animals to be Sampled = 1435 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Ahmednagar	Nagar	Gunwadi	126	0	126	13	13	0
Ahmednagar	Karjat	Taju	161	0	161	13	13	0
Ahmednagar	Parner	Karjule Harya	177	0	177	13	13	0
Ahmednagar	Shrigonda	Adhalgaon	300	0	300	13	13	0
Akola	Balapur	Ural Bk.	33	0	33	11	11	0
Akola	Barshitakli	Kothali Bk.	76	0	76	12	12	0
Amravati	Warud	Karwar	32	0	32	11	11	0
Amravati	Amravati	Brahman Wada Govindpur	44	0	44	12	12	0
Amravati	Shendurjana	Shendurjana (M Cl) - Ward No.6	44	12	56	12	9	3
Amravati	Daryapur	Sanglood	61	0	61	12	12	0
Amravati	Anjangaon Surji	Kasbegavhan	130	0	130	13	13	0
Aurangabad	Gangapur	Deokarwadi	65	0	65	12	12	0
Aurangabad	Silod	Wadodpan Bk.	94	0	94	13	13	0
Aurangabad	Khuldabad	Kasabheda	183	0	183	13	13	0
Beed	Bid	Mahalas Jawala	40	0	40	12	12	0
Beed	Georai	Bhend Takli	50	20	70	12	9	3
Beed	Ashti	Pangulavhan	104	0	104	13	13	0
Bhandara	Lakhandur	Palependhari	64	0	64	12	12	0
Bhandara	Mohadi	Navegaon Buj.	78	0	78	12	12	0
Buldhana	Jalgaon (Jamod)	Chalthana Siyam	34	0	34	11	11	0
Buldhana	Sangrapur	Katel	40	3	43	12	11	1
Buldhana	Jalgaon (Jamod)	Madakhed Bk.	57	0	57	12	12	0
Buldhana	Motala	Rohinkhed	134	0	134	13	13	0
Buldhana	Khamgaon	Lanjad	249	0	249	13	13	0
Chandrapur	Warora	Muradgaon	21	0	21	10	10	0
Chandrapur	Chandrapur	Arwat	34	0	34	11	11	0
Chandrapur	Rajura	Kawipeth	41	0	41	12	12	0
Chandrapur	Mul	Mul (M Cl) - Ward No.8	27	32	59	12	5	7
Chandrapur	Jiwati	Lambori	115	0	115	13	13	0
Dhule	Dhule	Gotane	48	0	48	12	12	0
Dhule	Dhule	Dhadara	123	0	123	13	13	0
Gadchiroli	Etapalli	Welmagad	20	0	20	10	10	0
Gadchiroli	Mulchera	Tumargunda	28	0	28	11	11	0
Gadchiroli	Etapalli	Zurri S.	36	0	36	11	11	0
Gadchiroli	Armori	Davandi	55	0	55	12	12	0
Gadchiroli	Aheri	Yermanar	116	0	116	13	13	0
Gondia	Salekasa	Labhandhari	51	0	51	12	12	0
Gondia	Amgaon	Chirchibandh	66	0	66	12	12	0
Hingoli	Basmath	Hiwara Kh	44	0	44	12	12	0
Hingoli	Sengaoon	Pankanhergaon	97	0	97	13	13	0
Jalgaon	Jalgaon	Dapore	13	0	13	9	9	0
Jalgaon	Pachora	Pachora (M Cl) - Ward No.8	1	34	35	11	0	11
Jalgaon	Pachora	Vadgaonkade	47	0	47	12	12	0
Jalgaon	Parola	Pimpalkotha	54	0	54	12	12	0
Jalgaon	Bhadgaon	Sawade	77	0	77	12	12	0
Jalgaon	Amalner	Amalner (M Cl) - Ward No.13	89	26	115	13	10	3
Jalna	Ghansawangi	Shevgal	49	6	55	12	11	1
Jalna	Jalna	Dudhana Kalegaon	94	0	94	13	13	0
Kolhapur	Kagal	Vandoor	27	0	27	11	11	0
Kolhapur	Chandgad	Jattewadi	50	0	50	12	12	0
Kolhapur	Ichalkaranji	Ichalkaranji (M Cl) - Ward No.9	20	38	58	12	4	8
Kolhapur	Chandgad	Ungaon	15	67	82	12	2	10
Kolhapur	Shirol	Terwad	12	94	106	13	1	12
Latur	Ausa	Dapegaon	36	0	36	11	11	0
Latur	Shirur-Anantpal	Shirur Anantpal	85	0	85	12	12	0
Nagpur	Katol	Wadhona (Lodhi)	26	0	26	11	11	0
Nagpur	Parseoni	Karnbhad	45	0	45	12	12	0
Nagpur	Kalameshwar	Khapari (Uma)	49	0	49	12	12	0
Nagpur	Narkhed	Agra	71	0	71	12	12	0
Nagpur	Narkhed	Narsingi	108	0	108	13	13	0

Nanded	Degpur	Tupshelgaon	19	0	19	10	10	0
Nanded	Bhokar	Samandarwadi	21	0	21	10	10	0
Nanded	Mukhed	Ravankola	41	0	41	12	12	0
Nanded	Mukhed	Barhali	56	0	56	12	12	0
Nanded	Hadgaon	Walki(Kh)	63	0	63	12	12	0
Nanded	Kinwat	Sarkhani	76	0	76	12	12	0
Nandurbar	Akrani	Nandalwad	30	0	30	11	11	0
Nandurbar	Akkalkuwa	Akkalkuwa (C)	21	27	48	12	5	7
Nandurbar	Nawapur	Shehi	51	0	51	12	12	0
Nashik	Malegaon	Tingri	21	0	21	10	10	0
Nashik	Yevla	Jaylare	32	0	32	11	11	0
Nashik	Dindori	Dhaur	66	0	66	12	12	0
Nashik	Chandvad	Bhutyane	65	1	66	12	12	0
Nashik	Malegaon	Malegaon (M CI) - Ward No.74	99	132	231	13	6	7
Nashik	Yevla	Panjarwadi	276	0	276	13	13	0
Nashik	Nashik	Nashik (M Corp.) - Ward No.20B	122	255	377	13	4	9
Osmanabad	Paramda	Donja	86	0	86	12	12	0
Osmanabad	Washi	Ghodki	116	0	116	13	13	0
Palghar	Vada	Vada (CT)	37	0	37	11	11	0
Palghar	Dahanu	Kandarwadi	49	0	49	12	12	0
Parbhani	Gangakhed	Shelmoha	40	0	40	12	12	0
Parbhani	Purna	Phulkalas	110	0	110	13	13	0
Pune	Daund	Kedgaon Station	17	0	17	10	10	0
Pune	Bhor	Parhar Bk.	38	0	38	12	12	0
Pune	Khed	Tifanwadi	48	0	48	12	12	0
Pune	Haveli	Wadhu Kh.	52	0	52	12	12	0
Pune	Shirur	Shikrapur	119	0	119	13	13	0
Pune	Indapur	Dalaj No.1	213	0	213	13	13	0
Raigad	Khalapur	Chilthan	11	0	11	8	8	0
Raigad	Mahad	Chandhave Kh.	19	0	19	10	10	0
Raigad	Mhasla	Thakroli	25	0	25	11	11	0
Raigad	Mahad	Kamble Tarf Birwadi	27	0	27	11	11	0
Raigad	Mahad	Katwade	37	0	37	11	11	0
Raigad	Karjat	Ware	142	0	142	13	13	0
Ratnagiri	Dapoli	Douli	18	0	18	10	10	0
Ratnagiri	Chiplun	Radhanagar	15	6	21	10	7	3
Ratnagiri	Rajapur	Zarye	27	0	27	11	11	0
Ratnagiri	Chiplun	Terav Bk.	31	12	43	12	9	3
Ratnagiri	Dapoli	Jamge	52	0	52	12	12	0
Sangli	Miraj	Karoli (M)	91	0	91	13	13	0
Sangli	Miraj	Janaraowadi	120	0	120	13	13	0
Satara	Phaltan	Malvadi	27	0	27	11	11	0
Satara	Koregaon	Randullabad	34	0	34	11	11	0
Satara	Satara	Valase	53	0	53	12	12	0
Satara	Mhaswad	Mhaswad (M CI) - Ward No.13	9	64	73	12	1	11
Satara	Phaltan	Somanthali	806	0	806	13	13	0
Sindhudurg	Dodamarg	Usap	19	0	19	10	10	0
Sindhudurg	Sawantwadi	Kunkeri	10	23	33	11	3	8
Solapur	Madha	Alegaon Bk	75	0	75	12	12	0
Solapur	Karmala	Savadi	167	0	167	13	13	0
Solapur	Mohol	Malikpath	143	70	213	13	9	4
Thane	Bhiwandi	Elkunde	30	0	30	11	11	0
Thane	Shahapur	Patol	104	0	104	13	13	0
Wardha	Wardha	Alodi	36	0	36	11	11	0
Wardha	Wardha	Sindhi(M)	126	0	126	13	13	0
Washim	Karanja	Panvihar	31	0	31	11	11	0
Washim	Manora	Gosta	54	0	54	12	12	0
Yavatmal	Pusad	Hiwalni Kh	41	0	41	12	12	0
Yavatmal	Kalamb	Potgavhan	80	0	80	12	12	0
Yavatmal	Ner	Sonwadhona	146	0	146	13	13	0
Mumbai	Greater Mumbai	L - Ward No. 171	27	0	27	11	11	0
		Total	8883	922	9805	1435	1324	111

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in india

a: District Name  
b: Talsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:  
f: under\_1year\_Fovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 121  
Reserved Random Villages 0  
Total Samples

1435  
0  
1435

**BRU/SEROMON/NIVEDI/Manipur\_22/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 921

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.026

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 126

Total No of Animals to be Sampled = 1381 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Bishnupur	Ningthoukhong	Ningthoukhong (NP) - Ward No.12	35	1	36	11	11	0
Bishnupur	Moirang	Thanga Lawai	54	0	54	12	12	0
Bishnupur	Moirang	Moirang Khunou	60	0	60	12	12	0
Bishnupur	Moirang	Moirang (M CI) - Ward No.8	69	0	69	12	12	0
Bishnupur	Nambol	Nambol (M CI) (Part) - Ward No.1	127	0	127	13	13	0
Bishnupur	Bishnupur	Wangoo Naodakhong	136	0	136	13	13	0
Bishnupur	Moirang	Moirang (M CI) - Ward No.12	147	3	150	13	13	0
Chandel	Chakpikarong	Hringphe	13	0	13	9	9	0
Chandel	Chandel	Litan	14	0	14	9	9	0
Chandel	Chandel	Chandrapoto	18	0	18	10	10	0
Chandel	Machi	Langol Khunou	18	0	18	10	10	0
Chandel	Chandel	Khuninglung	21	0	21	10	10	0
Chandel	Machi	Machi	24	0	24	11	11	0
Chandel	Machi	Laiching Khunou	27	0	27	11	11	0
Chandel	Machi	Laiching Maipuo	29	0	29	11	11	0
Chandel	Chakpikarong	Chakpimolbem	29	0	29	11	11	0
Chandel	Chandel	Purum Tampak	33	0	33	11	11	0
Chandel	Machi	Lamlong Khullen	35	0	35	11	11	0
Chandel	Machi	Heinoukhong	37	0	37	11	11	0
Chandel	Chandel	Kakching Mantak	38	0	38	12	12	0
Chandel	Machi	Kangoi Khullen	47	5	52	12	11	1
Chandel	Machi	Konaitong	54	0	54	12	12	0
Chandel	Machi	Khunbi	58	0	58	12	12	0
Churachandpur	Churachandpur	Khoirentak Khuman	11	0	11	8	8	0
Churachandpur	Churachandpur	Teiseng	12	0	12	9	9	0
Churachandpur	Tipaimukh	Ngampabung	14	0	14	9	9	0
Churachandpur	Singgat	Tonglon (K)	15	0	15	9	9	0
Churachandpur	Singgat	Lungchin	18	0	18	10	10	0
Churachandpur	Churachandpur	Kulbung	18	0	18	10	10	0
Churachandpur	Singgat	Langthul (E)	20	0	20	10	10	0
Churachandpur	Singgat	Langthul (L)	20	0	20	10	10	0
Churachandpur	Churachandpur North	Kukimun	20	0	20	10	10	0
Churachandpur	Churachandpur North	Tokpa Kabui	21	0	21	10	10	0
Churachandpur	Churachandpur	Keirap Khunkha	24	0	24	11	11	0
Churachandpur	Thanlon	Pangen	24	0	24	11	11	0
Churachandpur	Churachandpur	Rengkai (Ci)	26	0	26	11	11	0
Churachandpur	Churachandpur North	Chongkhajou	30	1	31	11	11	0
Churachandpur	Churachandpur North	Loilamkot	32	0	32	11	11	0
Churachandpur	Churachandpur	Gangpimual	44	0	44	12	12	0
Churachandpur	Churachandpur	Tuinuphai	57	0	57	12	12	0
Churachandpur	Churachandpur	Kompui	61	0	61	12	12	0
Churachandpur	Singgat	Kangkap	66	0	66	12	12	0
Churachandpur	Churachandpur North	Hengkapkot	74	0	74	12	12	0
Churachandpur	Churachandpur North	Tonghang	83	0	83	12	12	0
Churachandpur	Churachandpur	Benazou	11	90	101	13	1	12
Imphal East	Sawombung	Sawombung Thongkhong(Meitei)	13	0	13	9	9	0
Imphal East	Lamlai	Lamlai (NP) - Ward No.1	14	0	14	9	9	0
Imphal East	Jiribam	Sonapur Pt I	22	0	22	10	10	0
Imphal East	Sawombung	Kambongput Panthabi	22	0	22	10	10	0
Imphal East	Porompat	Lairikyengbam Leikai (Ci)	26	0	26	11	11	0
Imphal East	Sawombung	Phaknung	27	0	27	11	11	0
Imphal East	Keirao Bitra	Monthou Keithelmanbi And Laikho	30	0	30	11	11	0
Imphal East	Porompat	Moirangkampu Khewa Mapal	31	0	31	11	11	0
Imphal East	Sawombung	Makeng Chonglou	32	0	32	11	11	0
Imphal East	Sawombung	Sagolmang	36	0	36	11	11	0
Imphal East	Keirao Bitra	Urup	43	0	43	12	12	0
Imphal East	Porompat	Kongba Nongthombam Thambak	47	0	47	12	12	0
Imphal East	Jiribam	Ahamadabad	50	0	50	12	12	0
Imphal East	Keirao Bitra	Keirao-Langdum	62	0	62	12	12	0
Imphal East	Sawombung	Pangei Nepali And Meitei	66	0	66	12	12	0

Imphal East	Sawombung	Nongren	75	0	75	12	12	0
Imphal East	Porompat	Top Dusara Khabam	86	0	86	12	12	0
Imphal West	Lamshang	Shantipur And Subedar Basti	13	0	13	9	9	0
Imphal West	Patsoi	Sajirok	16	0	16	10	10	0
Imphal West	Lilong - Thoubal	Lilong (Imphal West) (NP) - Ward	21	0	21	10	10	0
Imphal West	Wangoi	Meitram	32	0	32	11	11	0
Imphal West	Lamshang	Kanto Khulen	34	0	34	11	11	0
Imphal West	Lamshang	Heinoupokpi	40	0	40	12	12	0
Imphal West	Patsoi	Tharoijam Keithelmacha	51	0	51	12	12	0
Imphal West	Mayang Imphal	Mayang Imphal (NP) - Ward No.1	53	4	57	12	11	1
Imphal West	Lamshang	Mayanglangjing Tanning And Tam	127	0	127	13	13	0
Imphal West	Lamshang	Khurkhuil Makha And Awang Leik	141	0	141	13	13	0
Senapati	Sadar Hills West	Ghimithari	11	0	11	8	8	0
Senapati	Sadar Hills West	Hajiang	11	0	11	8	8	0
Senapati	Sadar Hills West	Gelnel A	12	0	12	9	9	0
Senapati	Purul	Purul Rosofii	14	0	14	9	9	0
Senapati	Mao-Maram	Shajouba	14	0	14	9	9	0
Senapati	Mao-Maram	Willong Khullen	15	0	15	9	9	0
Senapati	Purul	Thingba Khullen	16	0	16	10	10	0
Senapati	Sadar Hills West	Gelnel	16	0	16	10	10	0
Senapati	Saitu-Gamphazol	Kolpechang Nepali	18	0	18	10	10	0
Senapati	Saitu-Gamphazol	Machangram	19	0	19	10	10	0
Senapati	Sadar Hills West	Songpekiang Nepali	19	0	19	10	10	0
Senapati	Mao-Maram	Taphou Pthyamai	19	0	19	10	10	0
Senapati	Mao-Maram	Chowainamei Khullen	20	0	20	10	10	0
Senapati	Mao-Maram	Makulongdi	23	0	23	11	11	0
Senapati	Sadar Hills West	Dahalthari	23	0	23	11	11	0
Senapati	Sadar Hills West	KharKhari	24	0	24	11	11	0
Senapati	Sadar Hills West	Mayangkhang	27	0	27	11	11	0
Senapati	Sadar Hills West	Kali Kholla Nepali	32	0	32	11	11	0
Senapati	Sadar Hills West	Kangpokpi Ward No. 15	33	0	33	11	11	0
Senapati	Sadar Hills West	12 Miles It Road	34	0	34	11	11	0
Senapati	Saitu-Gamphazol	Motbung	34	0	34	11	11	0
Senapati	Sadar Hills West	M.Ningthoupham	37	0	37	11	11	0
Senapati	Sadar Hills West	T. Khullen Nepali	39	0	39	12	12	0
Senapati	Sadar Hills West	Naibet	39	0	39	12	12	0
Senapati	Sadar Hills West	T.Waichong	46	0	46	12	12	0
Senapati	Mao-Maram	Tusii Ngaonni Khumai	49	0	49	12	12	0
Senapati	Sadar Hills West	Makui Asang	60	0	60	12	12	0
Senapati	Purul	Koide Makha	64	0	64	12	12	0
Senapati	Mao-Maram	Katomei	67	0	67	12	12	0
Senapati	Saitu-Gamphazol	Motbung Nepali	70	0	70	12	12	0
Tamenglong	Tamenglong	L.Pabram	19	0	19	10	10	0
Tamenglong	Nungha	Tousang	27	0	27	11	11	0
Tamenglong	Tamenglong North	Nallong	43	0	43	12	12	0
Tamenglong	Tamenglong North	Makuinong	58	0	58	12	12	0
Tamenglong	Tamenglong North	Old Lemta	60	0	60	12	12	0
Tamenglong	Tamenglong North	Kuilong-I	88	0	88	12	12	0
Thoubal	Thoubal	Ningel	14	0	14	9	9	0
Thoubal	Thoubal	Icham Kunou	18	0	18	10	10	0
Thoubal	Thoubal	Papal	23	0	23	11	11	0
Thoubal	Kakching	Kakching (M CI) - Ward No.7	31	0	31	11	11	0
Thoubal	Lilong - Thoubal	Lilong (Thoubal) (NP) (Part) - War	31	0	31	11	11	0
Thoubal	Thoubal	Khoirom	41	0	41	12	12	0
Thoubal	Kakching	Hiyanglam Part I	57	0	57	12	12	0
Thoubal	Kakching	Chairel	78	0	78	12	12	0
Thoubal	Thoubal	Khangabok Pt Ii That Is I Khangab	92	0	92	13	13	0
Thoubal	Thoubal	Tentha	106	0	106	13	13	0
Ukhul	Ukhul Central	Khangkhui Khunou	13	0	13	9	9	0
Ukhul	Ukhul Central	Tolloi	18	2	20	10	9	1
Ukhul	Ukhul North	Luireishimphung	22	0	22	10	10	0
Ukhul	Ukhul South	Kharan Khullen	22	0	22	10	10	0
Ukhul	Ukhul South	Bohoram	32	0	32	11	11	0
Ukhul	Ukhul North	Phungcham	42	0	42	12	12	0
Ukhul	Ukhul Central	Khamasom	32	15	47	12	8	4
Ukhul	Ukhul North	New Tusom	13	43	56	12	3	9
		Total	4919	164	5083	1381	1353	28

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in India

Abbreviations:  
a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 126	1381
Reserved Random Villages 0	0
Total Samples	1381

**BRU/SEROMON/NIVEDI/Meghalaya\_23/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 2629

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.038

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 87

Total No of Animals to be Sampled = 978 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
East Garo Hills	Samanda	New Chidekgiri	18	0	18	10	10	0
East Garo Hills	Songsak	Dangkong Tasilgre	26	0	26	11	11	0
East Garo Hills	Samanda	Bansam Kakwagre	28	0	28	11	11	0
East Garo Hills	Songsak	Mandalong	28	0	28	11	11	0
East Garo Hills	Songsak	Chidimit Boldakgittim	40	0	40	12	12	0
East Garo Hills	Songsak	Chidimit Imsinggittim	43	0	43	12	12	0
East Garo Hills	Dambo Rongjeng	Imtra-Apal (Mangsang Imtra-Gittim)	60	0	60	12	12	0
East Garo Hills	Songsak	Chidimit Saridam	66	0	66	12	12	0
East Jaintia Hills	Saipung	Moolamylhiang	52	0	52	12	12	0
East Jaintia Hills	Saipung	Tangnub	182	0	182	13	13	0
East Khasi Hills	Myllem	Liewlong	12	0	12	9	9	0
East Khasi Hills	Khatarshnong Laitkroh	Mawrah	20	0	20	10	10	0
East Khasi Hills	Shella Bholaganj	Dalia	21	0	21	10	10	0
East Khasi Hills	Mawphlang	Jaud Lyngkhoi	32	0	32	11	11	0
East Khasi Hills	Mawryngkneng	Mawiong Diengpasoh	36	0	36	11	11	0
East Khasi Hills	Mawphlang	Wahsohlait	38	0	38	12	12	0
East Khasi Hills	Mawphlang	Mawjongka	51	0	51	12	12	0
East Khasi Hills	Mawphlang	Mawkynjing	56	0	56	12	12	0
East Khasi Hills	Mawphlang	Wahlang	60	0	60	12	12	0
East Khasi Hills	Myllem	Umrnjah	71	0	71	12	12	0
North Garo Hills	Kharkutta	Rangsa	12	0	12	9	9	0
North Garo Hills	Resubelpara	New Miapara	17	0	17	10	10	0
North Garo Hills	Resubelpara	Pakmare	24	0	24	11	11	0
North Garo Hills	Resubelpara	Dalbingre	32	0	32	11	11	0
North Garo Hills	Kharkutta	Sarangma A	36	0	36	11	11	0
North Garo Hills	Kharkutta	Kara Balapara	41	0	41	12	12	0
North Garo Hills	Resubelpara	Dujung Akong	54	0	54	12	12	0
North Garo Hills	Kharkutta	Upper Jambal	64	0	64	12	12	0
North Garo Hills	Kharkutta	Mendima (Garo)	138	0	138	13	13	0
Ri Bhoi	Jirang	Mairapur	12	0	12	9	9	0
Ri Bhoi	Umsong	Shyntorbulia	12	2	14	9	8	1
Ri Bhoi	Jirang	Umlur	29	0	29	11	11	0
Ri Bhoi	Umling	Umsaw Nongbri	30	0	30	11	11	0
Ri Bhoi	Jirang	Rajakhumai	37	0	37	11	11	0
Ri Bhoi	Jirang	Nongladew	37	0	37	11	11	0
Ri Bhoi	Umling	Baridua 8Th Mile	505	0	505	13	13	0
South Garo Hills	Gasupara	Doldamgre	11	0	11	8	8	0
South Garo Hills	Chokpot	Kakijagiri	16	0	16	10	10	0
South Garo Hills	Rongara	Mongmabel	16	0	16	10	10	0
South Garo Hills	Chokpot	Papa Asakgre	26	0	26	11	11	0
South Garo Hills	Rongara	Mohadeo Warima	28	0	28	11	11	0
South Garo Hills	Chokpot	Nanil Songmong	28	0	28	11	11	0
South Garo Hills	Chokpot	Jallegre	30	0	30	11	11	0
South Garo Hills	Baghmara	Eringgre	40	0	40	12	12	0
South Garo Hills	Rongara	Lower Nekora	44	0	44	12	12	0
South Garo Hills	Rongara	Gulpani Nokat	46	0	46	12	12	0
South Garo Hills	Chokpot	Rongasigre	48	0	48	12	12	0
South Garo Hills	Chokpot	Ronganggre	114	0	114	13	13	0
South West Garo Hills	Betasing	Dipkaipara	14	0	14	9	9	0
South West Garo Hills	Zikzak	Pokasindigre	20	0	20	10	10	0
South West Garo Hills	Zikzak	Aningpara	36	0	36	11	11	0
South West Garo Hills	Zikzak	Balughat B	38	0	38	12	12	0
South West Garo Hills	Zikzak	Balughat	56	0	56	12	12	0
South West Garo Hills	Betasing	Sonamite	63	0	63	12	12	0
South West Garo Hills	Zikzak	Kukurmua	116	0	116	13	13	0
South West Khasi Hills	Mawkyrwat	Wahsiej	31	0	31	11	11	0
South West Khasi Hills	Ranikor	Upper Chibak	49	0	49	12	12	0
South West Khasi Hills	Mawkyrwat	Awro	60	0	60	12	12	0
West Garo Hills	Dalu	Nabandagre	16	0	16	10	10	0
West Garo Hills	Gambegre	Bolari Bazar	16	0	16	10	10	0

West Garo Hills	Selsella	Chamaguri(Rc)	24	0	24	11	11	0
West Garo Hills	Rongram	Matchurigre Songgitcham	24	0	24	11	11	0
West Garo Hills	Tikrikilla	Bondukmali	26	0	26	11	11	0
West Garo Hills	Tikrikilla	Borobakra	30	0	30	11	11	0
West Garo Hills	Tikrikilla	Upper Rimbigre	30	0	30	11	11	0
West Garo Hills	Dadenggiri	Songmarenggre	32	0	32	11	11	0
West Garo Hills	Dalu	Sesengpara	36	0	36	11	11	0
West Garo Hills	Dadenggiri	Dolwakgre	43	0	43	12	12	0
West Garo Hills	Gambegre	Badupara	54	0	54	12	12	0
West Garo Hills	Rongram	Bibrage	56	0	56	12	12	0
West Garo Hills	Dalu	Choto-Bolang	66	0	66	12	12	0
West Garo Hills	Dadenggiri	Janjallagre	74	0	74	12	12	0
West Garo Hills	Selsella	Nimaikata	102	0	102	13	13	0
West Garo Hills	Gambegre	Somonpara (Meguagre)	106	0	106	13	13	0
West Jaintia Hills	Amlarem	Moosakhia	30	0	30	11	11	0
West Jaintia Hills	Thadlaskain	Lumiakhiat	38	0	38	12	12	0
West Jaintia Hills	Laskain	Mooshroot	46	0	46	12	12	0
West Khasi Hills	Mawthadraishan	Nongshilong	12	0	12	9	9	0
West Khasi Hills	Mairang	Khah	16	0	16	10	10	0
West Khasi Hills	Nongstoin	Diskiang Pungstior	19	0	19	10	10	0
West Khasi Hills	Mairang	Nongktieh Tharia	28	0	28	11	11	0
West Khasi Hills	Mawshynrut	Hahuapara	32	0	32	11	11	0
West Khasi Hills	Mawthadraishan	Mawkohngai	36	0	36	11	11	0
West Khasi Hills	Mairang	Umniangriang	44	0	44	12	12	0
West Khasi Hills	Mairang	Sobtyngkhur	56	0	56	12	12	0
West Khasi Hills	Mawthadraishan	Nginiong	63	0	63	12	12	0
West Khasi Hills	Mairang	Kurbah War	64	0	64	12	12	0
		<b>Total</b>	<b>4169</b>	<b>2</b>	<b>4171</b>	<b>978</b>	<b>977</b>	<b>1</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 87  
Reserved Random Villages 0  
Total Samples 978

**BRU/SEROMON/NIVEDI/Mizoram\_24/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 1 + (under\_1year\_Fbovine) = 410

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.033

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 100

Total No of Animals to be Sampled = 733 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
AIZAWL	Darlawn	N.Serzawl	4	0	4	4	4	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.76	4	0	4	4	4	0
AIZAWL	Tlanguam (Part)	N.Langleng	7	0	7	7	7	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.56	8	0	8	7	7	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.30	8	0	8	7	7	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.13	9	0	9	8	8	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.45	11	0	11	8	8	0
AIZAWL	Saitual	Saitual (NT) - Ward No.3	11	0	11	8	8	0
AIZAWL	Phullen	Phullen	12	0	12	9	9	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.35	19	0	19	10	10	0
AIZAWL	Saitual	Saitual (NT) - Ward No.2	23	0	23	11	11	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.50	29	0	29	11	11	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.6	34	0	34	11	11	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.57	36	0	36	11	11	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.1	54	0	54	12	12	0
AIZAWL	Aizawl	Aizawl (NT) - Ward No.3	181	0	181	13	13	0
AIZAWL	Tlanguam (Part)	Silphir	228	0	228	13	13	0
KOLASIB	N Thingdawl	Sethawn	2	0	2	2	2	0
KOLASIB	N.Kawnpui	N.Kawnpui (NT) - Ward No.1	5	0	5	5	5	0
KOLASIB	Kolasib	Khuangpuiam	7	5	12	9	5	4
KOLASIB	N Thingdawl	N.Chahlang	14	0	14	9	9	0
KOLASIB	N Thingdawl	N.Himen	12	2	14	9	8	1
KOLASIB	Kolasib	Kolasib (NT) - Ward No.9	24	0	24	11	11	0
KOLASIB	Bairabi	Bairabi (NT) - Ward No.1	37	10	47	12	9	3
KOLASIB	Bilkhawthir	Saipum	69	0	69	12	12	0
LAWNGTLAI	Chawngte	Silosora	2	0	2	2	2	0
LAWNGTLAI	S Bungtlang	S.Bungtlang	2	0	2	2	2	0
LAWNGTLAI	Sangau	Lungpher	3	0	3	3	3	0
LAWNGTLAI	Lawngtai	AOC Veng	3	0	3	3	3	0
LAWNGTLAI	Lawngtai	Thingkah	3	0	3	3	3	0
LAWNGTLAI	Chawngte	Damdep II (New Jognasuri II)	4	0	4	4	4	0
LAWNGTLAI	Chawngte	Chhotaguasuri II	4	0	4	4	4	0
LAWNGTLAI	Chawngte	Lakkisury	4	0	4	4	4	0
LAWNGTLAI	Chawngte	New Chhippui	5	0	5	5	5	0
LAWNGTLAI	Chawngte	Simeinasora	7	0	7	7	7	0
LAWNGTLAI	Chawngte	Ugudasury	8	0	8	7	7	0
LAWNGTLAI	Chawngte	Jarukulbasora	9	0	9	8	8	0
LAWNGTLAI	Chawngte	Old Bajeisora	10	0	10	8	8	0
LAWNGTLAI	S Bungtlang	Chamdur ÖÇyPÖÇÖ I	10	0	10	8	8	0
LAWNGTLAI	Chawngte	Bondukbangsora	11	0	11	8	8	0
LAWNGTLAI	Chawngte	Ajasora	12	0	12	9	9	0
LAWNGTLAI	S Bungtlang	Ngunlingkhua	13	0	13	9	9	0
LAWNGTLAI	Chawngte	Kurbalavasora	19	0	19	10	10	0
LUNGLEI	Hnahthial	Aithur	2	0	2	2	2	0
LUNGLEI	West Bunglei	Sachan	2	0	2	2	2	0
LUNGLEI	Lunglei	Lunglei (NT) - Ward No.10	3	0	3	3	3	0
LUNGLEI	West Bunglei	Marpara S. II / Mar S II	3	0	3	3	3	0
LUNGLEI	Lunglei	Lunglei (NT) - Ward No.17	4	0	4	4	4	0
LUNGLEI	Lungsen	Phairuanchhuh	5	0	5	5	5	0
LUNGLEI	Lunglei	Lunglei (NT) - Ward No.4	5	0	5	5	5	0
LUNGLEI	Lunglei	Lunglei (NT) - Ward No.15	5	0	5	5	5	0
LUNGLEI	Lunglei	S.Tawipui	7	0	7	7	7	0
LUNGLEI	Lunglei	Lunglei (NT) - Ward No.11	10	0	10	8	8	0
LUNGLEI	Lunglei	Lunglei (NT) - Ward No.20	11	0	11	8	8	0
LUNGLEI	Lungsen	New Balukiasuri	13	0	13	9	9	0
LUNGLEI	Lunglei	Lunglei (NT) - Ward No.23	15	0	15	9	9	0
LUNGLEI	Lunglei	Lunglei (NT) - Ward No.9	20	0	20	10	10	0
LUNGLEI	West Bunglei	New Sachan	22	0	22	10	10	0
LUNGLEI	West Bunglei	Puankhai	30	0	30	11	11	0
MAMIT	Zawinuum	Thaidawr	2	0	2	2	2	0



MAMIT	West Phaileng	Turum	3	0	3	3	3	0
MAMIT	West Phaileng	Pukzing vengthar	4	0	4	4	4	0
MAMIT	Mamit	New mamit	5	0	5	5	5	0
MAMIT	Zawnuam	Muathuam	6	0	6	6	6	0
MAMIT	Reiek	Rawpuichhip	6	0	6	6	6	0
MAMIT	West Phaileng	Phuldungsei	8	0	8	7	7	0
MAMIT	West Phaileng	Damparengpui	9	0	9	8	8	0
MAMIT	West Phaileng	Hnahva	10	0	10	8	8	0
MAMIT	Zawnuam	Saikhawthlir	53	0	53	12	12	0
SIAHA	Siaha	Saia (NT) WARD NO.-0016	3	0	3	3	3	0
SIAHA	Siaha	Thiahra	5	0	5	5	5	0
SIAHA	Siaha	Siata-I	7	0	7	7	7	0
SIAHA	Tipa	Siatai	8	0	8	7	7	0
SIAHA	Tipa	Phura-N	8	0	8	7	7	0
SIAHA	Tipa	Lodaw	12	0	12	9	9	0
SIAHA	Tipa	Miepu-I	12	0	12	9	9	0
SIAHA	Siaha	Tisopi	15	0	15	9	9	0
CHAMPHAI	Khawzawl	Khawzawl (NT) - Ward No.4	2	0	2	2	2	0
CHAMPHAI	Ngopa	Ngopa	4	0	4	4	4	0
CHAMPHAI	Champhai	Kelkang	6	0	6	6	6	0
CHAMPHAI	Champhai	Champhai (NT) - Ward No.5	7	0	7	7	7	0
CHAMPHAI	Champhai	Champhai (NT) - Ward No.2	9	0	9	8	8	0
CHAMPHAI	Khawbung	Khuangthing	10	0	10	8	8	0
CHAMPHAI	Khawbung	Leisenzo	11	0	11	8	8	0
CHAMPHAI	East Lungdar (Part)	Sialhawk	12	0	12	9	9	0
CHAMPHAI	Ngopa	Hrianghmun	15	0	15	9	9	0
CHAMPHAI	Khawzawl	Aiduzawl	16	0	16	10	10	0
CHAMPHAI	Champhai	Vapar	17	0	17	10	10	0
CHAMPHAI	Khawbung	Vaphai	25	0	25	11	11	0
CHAMPHAI	Champhai	Champhai (NT) - Ward No.10	21	4	25	11	9	2
CHAMPHAI	Champhai	Champhai (NT) - Ward No.13	24	2	26	11	10	1
CHAMPHAI	Champhai	Hnahlan	114	0	114	13	13	0
SERCHHIP	Serchhip	Serchhip (NT) WARD NO.-0003	2	0	2	2	2	0
SERCHHIP	East Lungdar (Part)	N.Mualcheng	4	0	4	4	4	0
SERCHHIP	Serchhip	Sialhau	6	0	6	6	6	0
SERCHHIP	Serchhip	Ngentiang	7	0	7	7	7	0
SERCHHIP	Serchhip	Hmunzawl	11	0	11	8	8	0
SERCHHIP	N.Vanlaiphai	N.Vanlaiphai (NT) - Ward No.1	12	13	25	11	5	6
SERCHHIP	Serchhip	Chhingchhip	34	0	34	11	11	0
SERCHHIP	Thenzawl	Thenzawl Vengthar	42	1	43	12	12	0
		<b>Total</b>	<b>1721</b>	<b>37</b>	<b>1758</b>	<b>733</b>	<b>716</b>	<b>17</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 100  
Reserved Random Villages 0  
Total Samples

733  
0  
733

**BRU/SEROMON/NIVEDI/Nagaland\_25/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 1 + (under\_1year\_Fbovine) = 569

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.033

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 99

Total No of Animals to be Sampled = 693 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Dimapur	Medziphema	Seithekima C	2	0	2	2	2	0
Dimapur	Chumukedima	Naga United Vill.	3	0	3	3	3	0
Dimapur	Aqughnaqua	Aoyimchen	4	0	4	4	4	0
Dimapur	Kuhoboto	Hoito	4	0	4	4	4	0
Dimapur	Medziphema	Zhuikhu	4	0	4	4	4	0
Dimapur	Aqughnaqua	Pihckhu	6	0	6	6	6	0
Dimapur	Medziphema	Pherima Vill.	6	0	6	6	6	0
Dimapur	Kuhoboto	Xekiye	6	0	6	6	6	0
Dimapur	Chumukedima	Domokia	6	0	6	6	6	0
Dimapur	Aqughnaqua	Mughavi	9	0	9	8	8	0
Dimapur	Kuhoboto	Showuba (Old)	10	0	10	8	8	0
Dimapur	Kuhoboto	Suboi	11	0	11	8	8	0
Dimapur	Nibokhu	Khehoiyi	14	0	14	9	9	0
Dimapur	Dimapur Municipal	Dimapur (TC) - Ward No.14	16	0	16	10	10	0
Dimapur	Dhansiripar	Hazadisa	20	0	20	10	10	0
Dimapur	Dhansiripar	Dhansiripar Vill.	30	0	30	11	11	0
Dimapur	Chumukedima	Bade	31	0	31	11	11	0
Dimapur	Dimapur Municipal	Dimapur (TC) - Ward No.20	34	0	34	11	11	0
Dimapur	Niuland	Kuhoxu	36	0	36	11	11	0
Kiphire	Seyochung	Yangzitong	5	0	5	5	5	0
Kiphire	Seyochung	New Monger	7	0	7	7	7	0
Kiphire	Khongsa	Salomi	9	0	9	8	8	0
Kohima	Kohima	CHANDMARI LOWER	2	0	2	2	2	0
Kohima	Botsa	Teichuma	3	0	3	3	3	0
Kohima	Tseminyu	Ehunu	3	0	3	3	3	0
Kohima	Tsogin	New Sendenyu	6	0	6	6	6	0
Kohima	Tseminyu	Tseminyu South	7	0	7	7	7	0
Kohima	Tseminyu	Zisunyu	7	0	7	7	7	0
Kohima	Sechu-Zabza	Thekrejuma	8	0	8	7	7	0
Kohima	Tseminyu	Tesophenyu	12	0	12	9	9	0
Kohima	Jakhama	Viswema	17	0	17	10	10	0
Kohima	Sechu-Zabza	Khonoma	30	0	30	11	11	0
Longleng	Sakshi	Hongnyu Village	20	0	20	10	10	0
Longleng	Yongnyah	Yungja (Ur)	21	0	21	10	10	0
Longleng	Tamlu	Shitap	21	0	21	10	10	0
Longleng	Sakshi	Aoching	41	0	41	12	12	0
Longleng	Yongnyah	Nian	266	0	266	13	13	0
Mokokchung	Chuchuyimlang	Longkong	2	0	2	2	2	0
Mokokchung	Chuchuyimlang	Chuchuyimlang Vill.	3	0	3	3	3	0
Mokokchung	Mangkolemba	Puneboto Comp.	3	0	3	3	3	0
Mokokchung	Tuli	Mulongyimsen B	3	0	3	3	3	0
Mokokchung	Longchem	Saring	4	0	4	4	4	0
Mokokchung	Mokokchung	Lijabaljen Ward	4	0	4	4	4	0
Mokokchung	Mokokchung	Mokokchung (TC) - Ward No.15	8	0	8	7	7	0
Mon	Phomching	Wetting	2	0	2	2	2	0
Mon	Longshen	Yuting	4	0	4	4	4	0
Mon	Tizit	Ngangan (Ur)	4	0	4	4	4	0
Mon	Angiangyang	Angphang	7	0	7	7	7	0
Mon	Aboi	Mohong	10	0	10	8	8	0
Mon	Hunta	Longting	13	0	13	9	9	0
Mon	Hunta	Hunta Hq	13	0	13	9	9	0
Mon	Naginimora	Namthai	18	0	18	10	10	0
Mon	Tizit Town Council	Tizit Town (TC) - Ward No.5	22	0	22	10	10	0
Mon	Tizit Town Council	Tizit Town (TC) - Ward No.3	27	0	27	11	11	0
Mon	Tizit Town Council	Tizit Town (TC) - Ward No.7	38	0	38	12	12	0
Mon	Tizit	Tizit Village	52	0	52	12	12	0
Peren	Nsong	Lalong	2	0	2	2	2	0
Peren	Pedi (Ngwalwa)	Pedi	6	0	6	6	6	0
Peren	Peren	Ndunglwa	9	0	9	8	8	0
Peren	Tening	Nchangram	10	0	10	8	8	0

Peren	Peren	Peletkie	12	0	12	9	9	0
Peren	Jalukie	Jalukie (Old)	17	0	17	10	10	0
Peren	Jalukie	Jalukie % (J. Sanetam)	1	24	25	11	0	11
Peren	Athibung	New Chalkot	29	0	29	11	11	0
Peren	Tening	Azailong	62	21	83	12	9	3
Phek	Chozuba Town Council	Chozuba Town (TC) - Ward No.9	2	0	2	2	2	0
Phek	Meluri	Yisiotha	3	0	3	3	3	0
Phek	Pfutsero	Kade (Ur)	5	0	5	5	5	0
Phek	Chozuba Town Council	Chozuba Town (TC) - Ward No.8	7	2	9	8	6	2
Phek	Meluri	Lepthori	16	0	16	10	10	0
Phek	Chozuba	Phusachudu	19	0	19	10	10	0
Phek	Meluri	Akhegwo	25	0	25	11	11	0
Tuensang	Panso	Ekhao	2	0	2	2	2	0
Tuensang	Mangko	Mangko Hq	5	0	5	5	5	0
Tuensang	Noksen	Noksen Hq	8	0	8	7	7	0
Tuensang	Chessore	Kelonger	13	0	13	9	9	0
Tuensang	Shamator Town Council	Shamator Town (TC) - Ward No.10	21	0	21	10	10	0
Tuensang	Tuensang Sadar	Tuensang Village	22	0	22	10	10	0
Tuensang	Thonoknyu	Peshu	34	0	34	11	11	0
Wokha	Englan	Thillong (Ur)	2	0	2	2	2	0
Wokha	Wokha Sadar	Elumyo	3	0	3	3	3	0
Wokha	Changpang	Changpang Vill.	3	0	3	3	3	0
Wokha	Changpang	Aghaitito	3	0	3	3	3	0
Wokha	Wokha Town Council	Wokha (TC) - Ward No.15	6	0	6	6	6	0
Wokha	Baghty	Baghty Hq	7	0	7	7	7	0
Wokha	Wozhuro	N.Longchum	8	0	8	7	7	0
Zunheboto	Satakha	Sheni Old	2	0	2	2	2	0
Zunheboto	Zunheboto Sadar	Natha (New)	3	0	3	3	3	0
Zunheboto	Satoi	Satoi Vill	3	0	3	3	3	0
Zunheboto	Suruhuto	Asuto Vill.	4	0	4	4	4	0
Zunheboto	Suruhuto	Lithsami	4	0	4	4	4	0
Zunheboto	Suruhuto	Yehemi	5	0	5	5	5	0
Zunheboto	Ghathashi	Iphonumi	5	0	5	5	5	0
Zunheboto	Aghunato	Khewoto	10	0	10	8	8	0
Zunheboto	Atoizu	Vekubo (Old)	11	0	11	8	8	0
Zunheboto	Atoizu	Litsami	12	0	12	9	9	0
Zunheboto	Akuluto	Akuluto	13	0	13	9	9	0
Zunheboto	Satoi	Tsutoho	16	0	16	10	10	0
Zunheboto	Aghunato	Aghunato Hq	22	0	22	10	10	0
		<b>Total</b>	<b>1446</b>	<b>47</b>	<b>1493</b>	<b>693</b>	<b>677</b>	<b>16</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

**Abbreviations:**

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 99  
Reserved Random Villages 0  
Total Samples

693  
0  
693

**BRU/SEROMON/NIVEDI/Odisha\_26/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 17457

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.031

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 105

Total No of Animals to be Sampled = 1217 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Anugul	Kishorenagar	Angapada	117	0	117	13	13	0
Anugul	Chhendipada	Tentuloikodasahi	140	0	140	13	13	0
Balangir	Balangir	Bihibandh	27	0	27	11	11	0
Balangir	Saintala	Badmal (Ct)	43	0	43	12	12	0
Balangir	Saintala	Chalki	114	0	114	13	13	0
Baleshwar	Raibania	Chengda	20	0	20	10	10	0
Baleshwar	Baleshwar Sadar	Bilaparia	23	0	23	11	11	0
Baleshwar	Similia	Bainshibati	61	0	61	12	12	0
Baleshwar	Similia	Chalunigan	73	0	73	12	12	0
Baleshwar	Remuna	Goudagaon	78	0	78	12	12	0
Baleshwar	Singla	Bantuli	138	0	138	13	13	0
Bargarh	Sobela	Jhagadahal	26	0	26	11	11	0
Bargarh	Jharbandha	Nijjipatra	104	0	104	13	13	0
Bhadrak	Bansada	Brahmatikiri	120	0	120	13	13	0
Bhadrak	Bhandari Pokhari	Sankhula	150	0	150	13	13	0
Boudh	Puruna Katak	Raniganja	25	0	25	11	11	0
Boudh	Harbhanga	Sambarkata	47	0	47	12	12	0
Cuttack	Khuntuni	Mahalaxmipur	67	19	86	12	9	3
Cuttack	Gurudjhatia	Chhotiamba	92	0	92	13	13	0
Cuttack	Niali	Kulasri	158	0	158	13	13	0
Deogarh	Barkot	Bhaktabadkudar	30	0	30	11	11	0
Deogarh	Barkot	Landijhari	72	0	72	12	12	0
Dhenkanal	Gandia	Jhilli	61	0	61	12	12	0
Dhenkanal	Bhuban	Bhusala	147	0	147	13	13	0
Gajapati	Mohana	Khasada	23	0	23	11	11	0
Gajapati	Garabandha	Uruda	38	0	38	12	12	0
Gajapati	Parlakhemundi	Chitrakar Laxmipur	56	0	56	12	12	0
Ganjam	Jarada	Boribada	17	0	17	10	10	0
Ganjam	Kodala	Birajannathpur	24	0	24	11	11	0
Ganjam	Polasara	Polasara - Ward No.8	34	0	34	11	11	0
Ganjam	Gangapur	Masambhaga	36	0	36	11	11	0
Ganjam	Hinjili	Daripadar	53	0	53	12	12	0
Ganjam	Tarasingi	Lambhai	53	0	53	12	12	0
Ganjam	Brahmapur Sadar	Chandipadar	74	0	74	12	12	0
Jagatsinghapur	Naugaon	Angeswarpada	42	0	42	12	12	0
Jagatsinghapur	Jagatsinghapur	Kendal	82	0	82	12	12	0
Jajapur	Jajapur Road	Dhuligarh	82	0	82	12	12	0
Jajapur	Bari - Ramachandrapur	Sriram Pur	190	0	190	13	13	0
Jajapur	Binjharpur	Singhpur	309	0	309	13	13	0
Jharsuguda	Kolabira	Kundursingha	35	0	35	11	11	0
Kalahandi	Bhawanipatna	Bhawanipatna (M) - Ward No.17	18	0	18	10	10	0
Kalahandi	Kesinga	Jolako	28	0	28	11	11	0
Kalahandi	Kegaon	Sanchergaon	28	0	28	11	11	0
Kalahandi	Thuamul Rampur	Nagi	46	0	46	12	12	0
Kalahandi	Jayapatna	Pabli	71	0	71	12	12	0
Kandhamal	Tumudibandha	Mandalpadar	12	0	12	9	9	0
Kandhamal	Kotagarh	Durgapanga	15	0	15	9	9	0
Kandhamal	Chakapada	Gatasuga	19	0	19	10	10	0
Kandhamal	Khajuripada	Barikumpa	23	0	23	11	11	0
Kandhamal	Chakapada	Gasama	28	0	28	11	11	0
Kandhamal	Raikia	Mandakia	30	0	30	11	11	0
Kandhamal	Raikia	Luhuringia	58	0	58	12	12	0
Kendrapara	Patkura	Madana	68	0	68	12	12	0
Kendrapara	Pattamundai	Singhagan	73	0	73	12	12	0
Kendrapara	Marsaghai	Subala	119	30	149	13	10	3
Kendujhar	Nandipada	Nuarampas	22	0	22	10	10	0
Kendujhar	Ghasipura	Atasahpatana	44	0	44	12	12	0
Kendujhar	Anandapur	Badakusapada	46	0	46	12	12	0
Kendujhar	Turumunga	Kainda	63	0	63	12	12	0
Kendujhar	Harichandampur	Khuntapasi	113	0	113	13	13	0

Khordha	Khordha	Kotapalla	47	0	47	12	12	0
Khordha	Jatani	Dakshinamundamahan	69	0	69	12	12	0
Koraput	Machh Kund	Pipalapat	12	0	12	9	9	0
Koraput	Jeypore	Khairamundi	19	0	19	10	10	0
Koraput	Koraput	Puki	31	0	31	11	11	0
Koraput	Padua	Tansing	28	6	34	11	9	2
Koraput	Padua	Gohuru	41	0	41	12	12	0
Koraput	Sunabeda	Sunabeda (M) - Ward No.9	65	0	65	12	12	0
Malkangiri	Kalimela	Chintalwada	35	0	35	11	11	0
Malkangiri	Malkangiri	Ganjaabahal	80	0	80	12	12	0
Mayurbhanj	Sharata	Dhapada	141	0	141	13	13	0
Mayurbhanj	Gorumahisani	Kapilkudar	12	0	12	9	9	0
Mayurbhanj	Rasagobindapur	Kandrasul	22	0	22	10	10	0
Mayurbhanj	Karanja	Bhalugodaorochitraposi	35	0	35	11	11	0
Mayurbhanj	Baripada Sadar	Sikharghati	36	0	36	11	11	0
Mayurbhanj	Jharpokharia	Nuagan Sirsa	38	0	38	12	12	0
Mayurbhanj	Rairangpur	Raihari	42	0	42	12	12	0
Mayurbhanj	Ghagarbada	Righa	46	0	46	12	12	0
Mayurbhanj	Udala	Juulia	82	0	82	12	12	0
Nabarangpur	Kundei	Kibekonga	48	0	48	12	12	0
Nabarangpur	Nabarangapur P.S	PADALGUDA	162	0	162	13	13	0
Nayagarh	Gania	Dhuamada	31	0	31	11	11	0
Nayagarh	Ranapur	Brajaballabhapur	61	0	61	12	12	0
Nayagarh	Odagaon	Bahadajhola	85	0	85	12	12	0
Nuapada	Khariar	Bhairajpur	26	0	26	11	11	0
Nuapada	Sinapali	Kaseipani	54	0	54	12	12	0
Puri	Nimapada	Bantugram	61	0	61	12	12	0
Puri	Nimapada	Dekhata	204	0	204	13	13	0
Puri	Astaranga	Nagar	529	0	529	13	13	0
Rayagada	Kashipur	Barangapas	12	0	12	9	9	0
Rayagada	Bishamakatak	Dubagudi	14	0	14	9	9	0
Rayagada	Padmapur	Gulaguda	20	0	20	10	10	0
Rayagada	Rayagada	Nakiti	30	1	31	11	11	0
Rayagada	Rayagada	Tuduleteri	39	0	39	12	12	0
Rayagada	Gunupur	Gunupur (NAC) - Ward No.14	17	36	53	12	4	8
Rayagada	Rayagada	Barjhola	59	0	59	12	12	0
Sambalpur	Sambalpur	Sambalpur (M.Corp) - Ward No.1	30	0	30	11	11	0
Sambalpur	Charamal	Charmal	62	0	62	12	12	0
Sonepur	Biramaharajpur	Jatiapali	32	3	35	11	10	1
Sonepur	Biramaharajpur	Sagajuri	41	0	41	12	12	0
Sundargarh	Baragaon	Bheluabahal	17	0	17	10	10	0
Sundargarh	Lephipara	Bartankela	35	2	37	11	10	1
Sundargarh	Dharuadihi	Salangabudi	39	0	39	12	12	0
Sundargarh	Kinjirkela	Gidipahad	58	0	58	12	12	0
Sundargarh	Lahunipara	Lahunipada	95	0	95	13	13	0
		Total	6747	97	6844	1217	1199	18

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 105  
Reserved Random Villages 0  
Total Samples

1217  
0  
1217

**BRU/SEROMON/NIVEDI/Puducherry\_27/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 1 + (under\_1year\_Fbovine) = 133

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.043

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 76

Total No of Animals to be Sampled = 803 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Karaikal	Karaikal	Water Tank	18	0	18	10	10	0
Karaikal	Karaikal Taluk	Polagam	114	0	114	13	13	0
Karaikal	Thirunallar Taluk	Karukankudy	23	0	23	11	11	0
Karaikal	Karaikal	Pulankottai Salai	26	0	26	11	11	0
Karaikal	Thirunallar Taluk	Thirunallar	51	0	51	12	12	0
Karaikal	Karaikal Taluk	Kottucherry	57	0	57	12	12	0
Karaikal	Karaikal Taluk	Thirumalairayanpatinam (C)	61	0	61	12	12	0
Karaikal	Thirunallar Taluk	Puthakudy	61	0	61	12	12	0
Karaikal	Thirunallar Taluk	Keezhavoor (Part)	73	0	73	12	12	0
Karaikal	Karaikal Taluk	Thiruvettakudy	92	3	95	13	13	0
Karaikal	Karaikal	Oduthurai	109	0	109	13	13	0
Karaikal	Karaikal	Keezhakasakudy	120	0	120	13	13	0
Karaikal	Karaikal Taluk	Kizhamanai	133	0	133	13	13	0
Karaikal	Thirunallar Taluk	Sethur	134	0	134	13	13	0
Karaikal	Karaikal Taluk	Varichikudy (South)	143	0	143	13	13	0
Karaikal	Karaikal	Koipathu	133	14	147	13	12	1
Karaikal	Karaikal Taluk	Varichikudy (North)	152	0	152	13	13	0
Karaikal	Karaikal	Dharmapuram	177	2	179	13	13	0
Pondicherry	Ozhukarai	Pakkamudayanpet	2	0	2	2	2	0
Pondicherry	Ozhukarai	Ellaiipillaichavady	2	0	2	2	2	0
Pondicherry	Pondicherry	Muthialpet(West)	3	0	3	3	3	0
Pondicherry	Pondicherry	Raj Bhawan	3	0	3	3	3	0
Pondicherry	Ozhukarai	Pethuchettipet	4	0	4	4	4	0
Pondicherry	Ozhukarai	Arumparthapuram	6	0	6	6	6	0
Pondicherry	Pondicherry	Nainar Mandapam	6	0	6	6	6	0
Pondicherry	Pondicherry	Parimala Mudaliar Thottam	6	0	6	6	6	0
Pondicherry	Pondicherry	Solai Nagar	8	0	8	7	7	0
Pondicherry	Ozhukarai	Vinoba Nagar	9	0	9	8	8	0
Pondicherry	Ozhukarai	Koundanpalayam	10	0	10	8	8	0
Pondicherry	Pondicherry	Nethaji Nagar	11	2	13	9	8	1
Pondicherry	Pondicherry	Periaveerampatinam (OG) - Ward	13	0	13	9	9	0
Pondicherry	Villianur Taluk	Kanuvapet	15	0	15	9	9	0
Pondicherry	Ozhukarai	Meenatchipet	16	0	16	10	10	0
Pondicherry	Ozhukarai	Govindapet	17	0	17	10	10	0
Pondicherry	Bahour Taluk	Panayadikuppam	19	0	19	10	10	0
Pondicherry	Pondicherry	Ariankuppam (OG) - Ward No.43	20	0	20	10	10	0
Pondicherry	Pondicherry	Murungapakkam	22	0	22	10	10	0
Pondicherry	Ozhukarai	Kanagachettikulam	25	0	25	11	11	0
Pondicherry	Pondicherry	Keerapalayam	27	0	27	11	11	0
Pondicherry	Bahour Taluk	Outchimedu	33	0	33	11	11	0
Pondicherry	Bahour Taluk	Krishnavaram	34	0	34	11	11	0
Pondicherry	Villianur Taluk	Kuppam	36	0	36	11	11	0
Pondicherry	Villianur Taluk	Kizhur	39	0	39	12	12	0
Pondicherry	Villianur Taluk	Kottai Medu	39	0	39	12	12	0
Pondicherry	Bahour Taluk	Kaduvanur	39	0	39	12	12	0
Pondicherry	Villianur Taluk	Thirukkanur	43	0	43	12	12	0
Pondicherry	Villianur Taluk	Sivarandagam	43	0	43	12	12	0
Pondicherry	Ozhukarai	Oulgaret	54	0	54	12	12	0
Pondicherry	Ozhukarai	Nadesan Nagar	39	23	62	12	8	4
Pondicherry	Bahour Taluk	Sooramangalam	62	0	62	12	12	0
Pondicherry	Villianur Taluk	Suthukeny	63	0	63	12	12	0
Pondicherry	Puducherry Taluk	Thimmanaickenpalayam	65	0	65	12	12	0
Pondicherry	Villianur Taluk	Kurumbapet	74	0	74	12	12	0
Pondicherry	Villianur Taluk	Kodathur	76	0	76	12	12	0
Pondicherry	Pondicherry	Kakayantope (OG) - Ward No.44	77	0	77	12	12	0
Pondicherry	Ozhukarai	Muthirapalayam	86	0	86	12	12	0
Pondicherry	Villianur Taluk	Sellipattu	93	0	93	13	13	0
Pondicherry	Bahour Taluk	Nettapakkam	112	0	112	13	13	0
Pondicherry	Ozhukarai	Karuvadikuppam	115	0	115	13	13	0
Pondicherry	Ozhukarai	Alankuppam	119	0	119	13	13	0

Pondicherry	Bahour Taluk	Soriankuppam	147	0	147	13	13	0
Pondicherry	Villianur Taluk	Mangalam	149	0	149	13	13	0
Pondicherry	Ozhukarai	Pillichavady	149	0	149	13	13	0
Pondicherry	Villianur Taluk	Kunichampet	150	0	150	13	13	0
Pondicherry	Villianur Taluk	Sorapet	163	0	163	13	13	0
Pondicherry	Villianur Taluk	Vadanur	213	0	213	13	13	0
Pondicherry	Villianur Taluk	Kalithirthalkuppam	259	0	259	13	13	0
Pondicherry	Villianur Taluk	Villianur (Ct)	296	0	296	13	13	0
Mahe	Mahe	Palloor (South-West)	5	0	5	5	5	0
Mahe	Mahe	Chalakkara (South)	8	0	8	7	7	0
Mahe	Mahe	Pandakkal (South)	11	0	11	8	8	0
Mahe	Mahe	Palloor (North-East)	14	0	14	9	9	0
Mahe	Mahe	Pandakkal (Central)	15	0	15	9	9	0
Mahe	Mahe	Pandakkal (North)	28	0	28	11	11	0
Yanam	Yanam	Pillaraya	8	9	17	10	5	5
Yanam	Yanam	Mettacuru	14	17	31	11	5	6
		<b>Total</b>	<b>4891</b>	<b>70</b>	<b>4961</b>	<b>803</b>	<b>786</b>	<b>17</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 76  
Reserved Random Villages 0  
Total Samples

803  
0  
803

**BRU/SEROMON/NIVEDI/Punjab\_28/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 1153

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.031

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 105

Total No of Animals to be Sampled = 1365 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Amritsar	Amritsar- li	Kalhewal (407)	126	0	126	13	13	0
Amritsar	Ajnala	Gaggo Mahal (248)	141	0	141	13	13	0
Amritsar	Amritsar- li	Galluwal (423)	146	0	146	13	13	0
Amritsar	Amritsar	Amritsar (M Corp.) - Ward No.5	84	98	182	13	6	7
Amritsar	Ajnala	Sarang Dev (126)	105	100	205	13	7	6
Amritsar	Ajnala	Sehnsra (304)	281	0	281	13	13	0
Barnala	Barnala	Reserve for Women-Ward No.1	34	130	164	13	3	10
Barnala	Tapa	Pakho Kalan	224	0	224	13	13	0
Bathinda	Rampura Phul	BHAGTA BHAIKA	142	59	201	13	9	4
Bathinda	Bathinda	Talwandi Sabo	384	445	829	13	6	7
Faridkot	Jaitu	Matta (132)	152	0	152	13	13	0
Faridkot	Kotakpura	Sandhwan (111)	79	185	264	13	4	9
Fatehgarh Sahib	Khamanon	Sanghol (310)	144	0	144	13	13	0
Fatehgarh Sahib	Amloh	Badinpur (8)	44	112	156	13	4	9
Fatehgarh Sahib	Fatehgarh Sahib	Rajindergarh (263)	90	70	160	13	7	6
Fazilka	Fazilka	Jhumiawali (136)	280	0	280	13	13	0
Fazilka	Abohar	Panjkesti (123)	287	0	287	13	13	0
Firozpur	Firozpur	Arif Ke (22)	29	78	107	13	4	9
Firozpur	Guruaharsahi	Amir Khas (270)	10	116	126	13	1	12
Firozpur	Firozpur	Maste Ke (36)	146	0	146	13	13	0
Firozpur	Zira	Shianpari (135)	146	0	146	13	13	0
Firozpur	Firozpur	Kakuwala (127)	51	126	177	13	4	9
Firozpur	Firozpur	Changali Jadid (144)	120	124	244	13	6	7
Gurdaspur	Gurdaspur	Ghuman Kalan (450)	106	0	106	13	13	0
Gurdaspur	Gurdaspur	Talabpur (652)	99	13	112	13	11	2
Gurdaspur	Gurdaspur	Kaler Kalan (408)	115	0	115	13	13	0
Gurdaspur	Dera Baba Nanak	Rahimabad (432)	140	0	140	13	13	0
Gurdaspur	Batala	Veela Teja (359)	141	0	141	13	13	0
Gurdaspur	Gurdaspur	Chaura Khurd	54	105	159	13	4	9
Gurdaspur	Batala	Kala Afgana (321)	164	0	164	13	13	0
Gurdaspur	Gurdaspur	Babehali (364)	174	0	174	13	13	0
Gurdaspur	Gurdaspur	Tibber (366)	196	0	196	13	13	0
Gurdaspur	Gurdaspur	Paniar (313)	183	80	263	13	9	4
Hoshiarpur	Mukerian	Beh Kito (554)	61	47	108	13	7	6
Hoshiarpur	Mukerian	Bela Sariana (386)	115	0	115	13	13	0
Hoshiarpur	Hoshiarpur	Badla (286)	27	89	116	13	3	10
Hoshiarpur	Mukerian	Rajwal (605)	134	0	134	13	13	0
Hoshiarpur	Dasua	Dudial (640)	92	47	139	13	9	4
Hoshiarpur	Mukerian	Beh Mawa (552)	116	31	147	13	10	3
Hoshiarpur	Mukerian	Rakri (Cv)	141	43	184	13	10	3
Hoshiarpur	Dasua	Badla (626)	123	66	189	13	8	5
Hoshiarpur	Dasua	Ramatwali (470)	215	0	215	13	13	0
Hoshiarpur	Dasua	Khangwari (465)	221	0	221	13	13	0
Jalandhar	Jalandhar - li	Bullowal (354)	104	0	104	13	13	0
Jalandhar	Jalandhar - I	Salempur Masandan (188)	51	71	122	13	5	8
Jalandhar	Nakodar	Nakodar (M Cl) - Ward No.10	70	76	152	13	6	7
Jalandhar	Phillaur	Kot Badal Khan (79)	51	113	164	13	4	9
Jalandhar	Phillaur	Auja (191)	90	114	204	13	6	7
Jalandhar	Phillaur	Bara Pind (206)	151	177	328	13	6	7
Jalandhar	Phillaur	Bilga (102)	151	281	432	13	5	8
Jalandhar	Jalandhar - I	Jamsher (245)	565	0	565	13	13	0
Kapurthala	Phagwara	Drawesh Pind (110)	53	54	107	13	6	7
Kapurthala	Kapurthala	Ucha (85)	124	0	124	13	13	0
Kapurthala	Kapurthala	Bhawnipur (90)	132	0	132	13	13	0
Kapurthala	Kapurthala	Lakhan Kalan (139)	143	0	143	13	13	0
Kapurthala	Kapurthala	Sidhwan Dona (163)	260	0	260	13	13	0
Kapurthala	Kapurthala	Alamgir (218)	22	269	291	13	1	12
Ludhiana	Ludhiana (East)	Jassar (255)	81	26	107	13	10	3
Ludhiana	Ludhiana	Ludhiana (M Corp.) - Ward No.1	59	82	141	13	5	8
Ludhiana	Jagraon	Leelan (51)	151	0	151	13	13	0



Ludhiana	Samrala	Seh (171)	160	0	160	13	13	0
Ludhiana	Khanna	Jatana (149)	92	78	170	13	7	6
Ludhiana	Ludhiana (East)	Nangal (329)	74	165	239	13	4	9
Ludhiana	Jagraon	Kaunke (136)	236	339	575	13	5	8
Ludhiana	Ludhiana	Ludhiana (M Corp.) - Ward No.77	992	1469	2461	13	5	8
Mansa	Sardulgarh	Raipur (94)	204	0	204	13	13	0
Mansa	Mansa	Uddat Bhagat Ram (110)	60	284	344	13	2	11
Moga	Bagha Purana	Mahla Kalan (70)	45	118	163	13	4	9
Moga	Moga	Salina (16)	106	192	298	13	5	8
Muktsar	Gidderbaha	Babania (20)	49	94	143	13	4	9
Muktsar	Muktsar	Bhanghari (58)	235	0	235	13	13	0
Nawanshahr (Sbs Nagar)	Banga	Mukandpur (192)	58	86	144	13	5	8
Nawanshahr (Sbs Nagar)	Balachaur	Mutton (441)	161	0	161	13	13	0
Nawanshahr (Sbs Nagar)	Balachaur	Rattewal (396)	643	0	643	13	13	0
Pathankot	Pathankot	Kahanpur (349)	162	0	162	13	13	0
Patiala	Patiala	Masingan (311)	109	0	109	13	13	0
Patiala	Samana	Samana (M Cl) - Ward No.12	32	80	112	13	4	9
Patiala	Nabha	Bina Heri (7)	33	119	152	13	3	10
Patiala	Samana	Bahmana (88)	154	0	154	13	13	0
Patiala	Patran	Dotal (173)	171	0	171	13	13	0
Patiala	Samana	Dhanetha (75)	178	0	178	13	13	0
Patiala	Patran	Galoli (207)	72	160	232	13	4	9
Patiala	Samana	Samana (M Cl) - Ward No.7	53	231	284	13	2	11
Rupnagar	Chamkaur Sahib	Bara Makrauna (299)	56	59	115	13	6	7
Rupnagar	Chamkaur Sahib	Dehar (154)	30	108	138	13	3	10
Rupnagar	Chamkaur Sahib	Dhamauri (230)	148	0	148	13	13	0
Rupnagar	Chamkaur Sahib	Lutheri (291)	75	78	153	13	6	7
Rupnagar	Chamkaur Sahib	Bari Mandauli (248)	247	0	247	13	13	0
Rupnagar	Chamkaur Sahib	Kainaur (235)	110	152	262	13	5	8
S.A.S Nagar	Kharar	Phantwan (87)	19	100	119	13	2	11
S.A.S Nagar	Kharar	Jhande Majra (144)	0	154	154	13	0	13
S.A.S Nagar	Kharar	Machhli Kalan (238)	29	186	215	13	2	11
Sangrur	Cheema	Cheema (NP) - Ward No.4	10	172	182	13	1	12
Sangrur	Sunam	Bakhtour Nagar	129	73	202	13	8	5
Sangrur	Sangrur	Gagarpur (55)	113	0	113	13	13	0
Sangrur	Malerkotla	Bhurthia Mander (194)	60	74	134	13	6	7
Sangrur	Dhuri	Kumbarwal (47)	24	141	165	13	2	11
Sangrur	Moonak	Fatehgarh Nauabad Alias Bahmiw	17	159	176	13	1	12
Sangrur	Longowal	Longowal (M Cl) - Ward No.9	19	185	204	13	1	12
Sangrur	Lehra	Bhatal Kalan (61)	104	467	571	13	2	11
Tarn Taran	Patti	Narii (108)	128	0	128	13	13	0
Tarn Taran	Patti	Gandiwind (298)	142	0	142	13	13	0
Tarn Taran	Patti	Amin Shah (102)	30	143	173	13	2	11
Tarn Taran	Tarn Taran	Khara (58)	91	174	265	13	4	9
Tarn Taran	Tarn Taran	Chohla Sahib (304)	270	0	270	13	13	0
		<b>Total</b>	<b>14050</b>	<b>9267</b>	<b>23323</b>	<b>1365</b>	<b>876</b>	<b>489</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1-year-old female calf population) in india

**Abbreviations:**

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_year\_Fcattle  
e: under\_year\_Fbuffalo  
f: under\_year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 105  
Reserved Random Villages 0  
Total Samples 1365  
0  
1365

**BRU/SEROMON/NIVEDI/Rajasthan\_29/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 6124

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.043

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 76 (+2 Reserved villages)

Total No of Animals to be Sampled = 988

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Ajmer	Ajmer	Lohagal	294	0	294	13	13	0
Alwar	MALAKHERA	Bhandodi	14	198	212	13	1	12
Alwar	Ramgarh	Sahdoli	21	247	268	13	1	12
Alwar	NEEMRANA	Fanhalpur	112	432	544	13	3	10
Banswara	Kushalgarh	Khariya-Sath	161	0	161	13	13	0
Banswara	Gangartala	Pola Pan	191	0	191	13	13	0
Baran	Atru	Kawai (C)	160	0	160	13	13	0
Baran	Aatah	Palayaha	270	0	270	13	13	0
Barmer	Gira	Khokhur Parv	132	0	132	13	13	0
Barmer	Gadra Road	Doodhora	170	0	170	13	13	0
Barmer	Ramsar	Ramsaragar	184	0	184	13	13	0
Barmer	Dhanau	Krishan Ka Tala	221	0	221	13	13	0
Barmer	Samdari	Doodar Ka Bara(Ajest)	330	261	591	13	7	6
Bharatpur	Nagar	Raisya	176	0	176	13	13	0
Bharatpur	Deeg	Nagla Khoh	123	170	293	13	5	8
Bhilwara	Mandal	Dhanswala (Mandal)	238	0	238	13	13	0
Bhilwara	Hameeragarh	Biliya Kalan	415	0	415	13	13	0
Bikaner	Sadlungarh	Likhamisar Dikhada	345	0	345	13	13	0
Bikaner	Lunkaransar	Suin	1004	0	1004	13	13	0
Bundi	Hindoli	Dhowara	172	0	172	13	13	0
Bundi	TALERA	Khadpur	315	0	315	13	13	0
Chittorgarh *	Kapasan	Chakuri	74	119	193	13	5	8
Chittorgarh	Nimbahera	Kanera	272	0	272	13	13	0
Churu	Sardarshahar	Kusumdesar	179	20	199	13	12	1
Churu	Sardarshahar	Keekasar	411	84	495	13	11	2
Dausa	Ramgarh pacwara	Palunda	48	130	178	13	4	9
Dausa	Sikrai	Chandosa	28	375	403	13	1	12
Dholpur	Rajakhera	Nahla	23	141	164	13	2	11
Dholpur	Dholpur	Purani Chuhwii (Dg)	190	0	190	13	13	0
Dungarpur	Chikhali	Doongar Saran	178	0	178	13	13	0
Dungarpur	Chikhali	Parla Dhryati	360	0	360	13	13	0
Ganganagar	Amargarh	4 Ksm	110	0	110	13	13	0
Ganganagar	Padampur	3 Eea	120	0	120	13	13	0
Ganganagar	Amargarh	4-A	75	105	180	13	5	8
Ganganagar	Vijainagar	17 Sd	195	0	195	13	13	0
Ganganagar	Suratgarh	Singrasar	212	0	212	13	13	0
Ganganagar	Padampur	32 Rb	214	0	214	13	13	0
Ganganagar	Sardarshahar	13 Lig (Rotanwali)	230	0	230	13	13	0
Hamirangarh	Rawatsar	Bangasar	199	0	199	13	13	0
Hamirangarh	Pilibunga	4 Unw	294	0	294	13	13	0
Hamirangarh	Tibi	11 Rwd	194	125	319	13	8	5
Jaipur	Jamwa Ramgarh	Dangarwara Khurd	178	0	178	13	13	0
Jaipur	Chomu	Hahmoda	270	0	270	13	13	0
Jaipur	KOTKHAWDA	Kotkawa	368	0	368	13	13	0
Jaisalmer *	Jaisalmer	Sainiknagar	213	0	213	13	13	0
Jaisalmer	Jaisalmer	Loonar	273	0	273	13	13	0
Jalore	Rainwara	Mokhanara	256	0	256	13	13	0
Jalore	Chitalwana	Veerawa	446	0	446	13	13	0
Jhalwar	Gangdhar	Lakha Kheri Umra	122	48	170	13	9	4
Jhalwar	Khanpur	Bagher	214	0	214	13	13	0
Jhunjhunu	SURAJGARH	Agwara Khurd	189	0	189	13	13	0
Jhunjhunu	Buhana	Heerwa	327	0	327	13	13	0
Jodhpur	Jodhpur	Dheemani Ki Dhani	238	0	238	13	13	0
Jodhpur	Bilara	Kaparda	346	0	346	13	13	0
Jodhpur	LOHAWAT	Mahadev Nagar (Morali Bar)	494	0	494	13	13	0
Karauli	Todabhim	Bhansapura	37	115	152	13	3	10
Karauli	Hindan	Vajheda	6	234	240	13	0	13
Kota	KANWAS	Awan	239	0	239	13	13	0
Kota	Kota	Kota (M Corp) - Ward No.3	166	265	431	13	5	8
Nagaur	MUNDWA	Khujwara	174	0	174	13	13	0

Nagar	Jajal	Khiriyala	281	0	281	13	13	0
Nagar	Kheerwasar	Deu	930	153	1083	13	11	2
Pali	Bali	Upla Bhimana	193	0	193	13	13	0
Pali	Jaitaran	Lototi	404	0	404	13	13	0
Pratapgarh	Arnod	Bari Sakthali	153	0	153	13	13	0
Pratapgarh	Dhariawad	Sihar	254	485	739	13	4	9
Rajasmund	Nathdwara	Lal Madri	165	0	165	13	13	0
Rajasmund	Nathdwara	Uthmol	240	0	240	13	13	0
Sawai Madhopur	Bamawas	Sukar	224	0	224	13	13	0
Sawai Madhopur	Bonli	Badaganv Sarwar	102	174	276	13	5	8
Sikar	Danta Rungarh	Sami	215	0	215	13	13	0
Sikar	DHOD	Tajsar Khejodiyari	400	0	400	13	13	0
Sirohi	Pindwara	Siwera	67	113	180	13	5	8
Tonk	Tonk	Tonk (M CI) - Ward No.1	66	113	179	13	5	8
Tonk	Todarisingh	Kanwarawas	101	231	332	13	4	9
Udaipur	Salunbar	Harmatya Kalan	20	174	194	13	1	12
Udaipur	Govra	Gourela	237	0	237	13	13	0
Udaipur	Kotta	Loharcha	757	0	757	13	13	0
		<b>Total</b>	<b>18019</b>	<b>4512</b>	<b>22531</b>	<b>1014</b>	<b>819</b>	<b>195</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Taluq Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

**Abbreviations:**

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 76  
Reserved Random Villages 2  
Total Samples 1014

988  
26  
1014

**BRU/SEROMON/NIVEDI/Sikkim\_30/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 366

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.031

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 105

Total No of Animals to be Sampled = 1288 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
East District	Gangtok	Lower Sichey II	19	0	19	10	10	0
East District	Rongli	Mulukey	30	0	30	11	11	0
East District	Gangtok	Budang Thangsing	40	0	40	12	12	0
East District	Pakyong	Aho	47	0	47	12	12	0
East District	Gangtok	Sirwani	49	0	49	12	12	0
East District	Pakyong	Tshalumthang	52	0	52	12	12	0
East District	Gangtok	Upper Burtuk	54	0	54	12	12	0
East District	Pakyong	Dikling	59	0	59	12	12	0
East District	Gangtok	Lingdum	61	0	61	12	12	0
East District	Rangpo	Kamerey	62	0	62	12	12	0
East District	Gangtok	Shygyong Runtek	77	0	77	12	12	0
East District	Gangtok	Chalamthang	84	0	84	12	12	0
East District	Rangpo	Sajong	84	0	84	12	12	0
East District	Rongli	Lingtam	89	0	89	12	12	0
East District	Rangpo	Lingzey Sumin	98	0	98	13	13	0
East District	Gangtok	Singbel	104	0	104	13	13	0
East District	Rongli	Subaneydara	108	0	108	13	13	0
East District	Gangtok	Lingdok	118	0	118	13	13	0
East District	Pakyong	Pachey	120	0	120	13	13	0
East District	Gangtok	Rongay	127	0	127	13	13	0
East District	Gangtok	Patuk	136	0	136	13	13	0
East District	Gangtok	Rakdong	140	0	140	13	13	0
East District	Gangtok	Assam	164	0	164	13	13	0
East District	Gangtok	Dung Dung	172	0	172	13	13	0
East District	Gangtok	Syari	191	0	191	13	13	0
East District	Pakyong	Namcheybong	193	0	193	13	13	0
East District	Rangpo	Central Pendam	202	0	202	13	13	0
East District	Gangtok	Luing	211	0	211	13	13	0
East District	Rangpo	West Pendam	281	0	281	13	13	0
North District	Dzongu	Sakyong-Pentong	18	0	18	10	10	0
North District	Mangan	Sentam	39	0	39	12	12	0
North District	Mangan	Zimchung	41	0	41	12	12	0
North District	Mangan	Ringhim	50	0	50	12	12	0
North District	Kabi	Rongong	60	0	60	12	12	0
North District	Mangan	Tingchim	62	0	62	12	12	0
North District	Kabi	Ramthang	66	0	66	12	12	0
North District	Dzongu	Tingvong	70	0	70	12	12	0
North District	Mangan	U. Mangshila	87	0	87	12	12	0
North District	Chungthang	Lachen	96	0	96	13	13	0
North District	Kabi	Kabi	110	0	110	13	13	0
North District	Dzongu	Hee-Gyathang	140	0	140	13	13	0
South District	Yangang	Lingi	18	0	18	10	10	0
South District	Namchi	Barul	20	0	20	10	10	0
South District	Namchi	Thangsing	27	0	27	11	11	0
South District	Jorethang	Dhargaon	31	0	31	11	11	0
South District	Namchi	Kopchey	31	0	31	11	11	0
South District	Namchi	Temi	35	0	35	11	11	0
South District	Namchi	Maneydara	38	0	38	12	12	0
South District	Ravong	Rayong	39	0	39	12	12	0
South District	Jorethang	Melli	42	0	42	12	12	0
South District	Namchi	Rong	47	0	47	12	12	0
South District	Jorethang	Sumbuk	54	0	54	12	12	0
South District	Yangang	Lower Paiyong	55	0	55	12	12	0
South District	Namchi	Wok	63	0	63	12	12	0
South District	Namchi	Tingrihang	65	0	65	12	12	0
South District	Namchi	Sukrabarey	66	0	66	12	12	0
South District	Jorethang	Sangbong	66	0	66	12	12	0
South District	Ravong	Rabong	66	0	66	12	12	0
South District	Yangang	Sokpay	77	0	77	12	12	0
South District	Namchi	Maniram	78	0	78	12	12	0

South District	Yangang	Kolhang	88	0	88	12	12	0
South District	Ravong	Ralong	89	0	89	12	12	0
South District	Namchi	Karek	97	0	97	13	13	0
South District	Yangang	Mangzing	101	0	101	13	13	0
South District	Namchi	Assanghang	108	1	109	13	13	0
South District	Namchi	Mamley	117	0	117	13	13	0
South District	Ravong	Polok	130	0	130	13	13	0
South District	Namchi	Chemchey	143	0	143	13	13	0
South District	Ravong	Sangmoo	143	0	143	13	13	0
South District	Namchi	Deu	159	0	159	13	13	0
South District	Yangang	Yangang	161	0	161	13	13	0
South District	Yangang	Rangang	172	0	172	13	13	0
South District	Yangang	Satam	174	0	174	13	13	0
South District	Ravong	Borong	176	0	176	13	13	0
South District	Namchi	Jaubari	177	0	177	13	13	0
South District	Yangang	Namphok	178	0	178	13	13	0
South District	Namchi	Rameng	206	0	206	13	13	0
West District	Gyalshing	CENTRAL GEYZING	14	0	14	9	9	0
West District	Soreng	Salyangdang	31	0	31	11	11	0
West District	Gyalshing	Dubdi	32	0	32	11	11	0
West District	Gyalshing	Sindrabong	46	0	46	12	12	0
West District	Yuksom	Singlitam	52	0	52	12	12	0
West District	Soreng	Samsing	53	0	53	12	12	0
West District	Soreng	Arubotey	60	0	60	12	12	0
West District	Gyalshing	Kyongsa	61	0	61	12	12	0
West District	Soreng	Singling	64	0	64	12	12	0
West District	Dentam	Sopakha	67	0	67	12	12	0
West District	Gyalshing	Yangthang	73	0	73	12	12	0
West District	Gyalshing	Narkhola	74	0	74	12	12	0
West District	Soreng	Tharpu	84	0	84	12	12	0
West District	Dentam	Pecherek	82	7	89	12	11	1
West District	Soreng	Tikpur	89	0	89	12	12	0
West District	Gyalshing	Bhaluthang	91	0	91	13	13	0
West District	Soreng	Lower Fambong	92	3	95	13	13	0
West District	Gyalshing	Mangnam	102	0	102	13	13	0
West District	Gyalshing	Darap	107	0	107	13	13	0
West District	Gyalshing	Namboo	115	0	115	13	13	0
West District	Dentam	Hee	117	0	117	13	13	0
West District	Soreng	Karthok	119	0	119	13	13	0
West District	Dentam	Barthang	126	0	126	13	13	0
West District	Dentam	Sangkhu	151	0	151	13	13	0
West District	Dentam	Maneybung	159	5	164	13	13	0
West District	Soreng	Timberbong	186	0	186	13	13	0
West District	Soreng	Parenggaon	290	0	290	13	13	0
West District	Soreng	Okhery	424	0	424	13	13	0
		Total	10309	16	10325	1288	1287	1

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Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 105  
Reserved Random Villages 0  
Total Samples

1288  
0  
1288

**BRU/SEROMON/NIVEDI/Tamil Nadu\_31/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 5649

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.026

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 126

Total No of Animals to be Sampled = 1638 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Ariyalur	Udayarpalayam	Suthamali	479	0	479	13	13	0
Coimbatore	Sulur	Kallapalayam	159	0	159	13	13	0
Coimbatore	Coimbatore	Coimbatore (M.Corp.) - Ward No.3	202	0	202	13	13	0
Coimbatore	Mettupalayam	Chickadasampalayam	252	0	252	13	13	0
Coimbatore	Coimbatore North	Nanjundapuram	500	0	500	13	13	0
Coimbatore	Coimbatore	Coimbatore (M.Corp.) - Ward No.1	530	0	530	13	13	0
Cuddalore	Virudhachalam	Perambalur	104	0	104	13	13	0
Cuddalore	Panruti	Kilgangeyankuppam	137	0	137	13	13	0
Cuddalore	Virudhachalam	Sirunesalur	177	0	177	13	13	0
Cuddalore	Tittakudi	Venkanur	204	0	204	13	13	0
Cuddalore	Virudhachalam	Kottumalai	252	0	252	13	13	0
Cuddalore	Cuddalore	Vellakarai	494	0	494	13	13	0
Dharmapuri	Pennagaram	Chinnampalli	290	0	290	13	13	0
Dharmapuri	Harur	Jchambadi	381	0	381	13	13	0
Dindigul	Nilakkottai	Viruveedu	233	0	233	13	13	0
Dindigul	Nilakkottai	Ethilodu	313	0	313	13	13	0
Dindigul	Dindigul	Balakrishnapuram (Ct)	460	0	460	13	13	0
Erode	Periyakodiveri	Periyakodiveri (TP) - Ward No.6	172	15	187	13	12	1
Erode	Erode	Erode (M) - Ward No.48	117	72	189	13	8	5
Erode	Sathyamangalam	Karidoddampalayam	204	0	204	13	13	0
Erode	Perundurai	Thoranavasi	378	0	378	13	13	0
Erode	Gobichettipalayam	Gobichettipalayam (M) - Ward No.	535	160	695	13	10	3
Kanchipuram	Maduranthakam	Semppondi	118	0	118	13	13	0
Kanchipuram	Maduranthakam	Keezhamur	135	0	135	13	13	0
Kanchipuram	Uthiramerur	Salavakkam	222	0	222	13	13	0
Kanchipuram	Cheyyur	Nerkunampattu	237	0	237	13	13	0
Kanchipuram	Uthiramerur	Elayambudur	274	0	274	13	13	0
Kanchipuram	Sriperumbudur	Echoor	322	0	322	13	13	0
Kanchipuram	Kancheepuram	Musaravakkam	512	0	512	13	13	0
Kanniyakumari	Vilavancode	Kollemcode	135	0	135	13	13	0
Kanniyakumari	Vilavancode	Enayamputhenburai	152	0	152	13	13	0
Kanniyakumari	Vilavancode	Kizhmidalam	192	0	192	13	13	0
Kanniyakumari	Agastheeswaram	Dharmapuram (Part)	235	0	235	13	13	0
Kanniyakumari	Vilavancode	Keezhkulam	236	0	236	13	13	0
Karur	Kulithalai	Thalinji	297	0	297	13	13	0
Karur	Kadavur	Kosur	379	0	379	13	13	0
Krishnagiri	Denkanikottai	Rathnagiri	263	0	263	13	13	0
Krishnagiri	Denkanikottai	Gumlapuram	430	0	430	13	13	0
Krishnagiri	Denkanikottai	Erudukotta	454	0	454	13	13	0
Madurai	Peraiyur	Uthapuram	239	0	239	13	13	0
Madurai	Peraiyur	Kalluthu	312	0	312	13	13	0
Madurai	Melur	Manappachcheri	402	0	402	13	13	0
Nagapattinam	Vedaranyam	Thagatur Subramanyakadu	213	10	223	13	12	1
Nagapattinam	Tharangambadi	Thirukkulacheri	466	0	466	13	13	0
Nagapattinam	Vedaranyam	Vadamazhai	556	0	556	13	13	0
Namakkal	Namakkal	Karadippatti	193	0	193	13	13	0
Namakkal	Namakkal	Pudocombai	247	0	247	13	13	0
Namakkal	Namakkal	Tattayangarpatti	274	0	274	13	13	0
Perambalur	Kunnam	Athiyur (North)	210	0	210	13	13	0
Perambalur	Kunnam	Perali (North)	322	0	322	13	13	0
Pudukkottai	Gandarvakkottai	Ponakulam	164	0	164	13	13	0
Pudukkottai	Karambakudi	Kulanthiranpatti	208	0	208	13	13	0
Pudukkottai	Alangudi	Puravasagudy	217	0	217	13	13	0
Pudukkottai	Kulathur	Nanjur	317	0	317	13	13	0
Pudukkottai	Ponnamaravathi	R.Palakurichy	343	0	343	13	13	0
Ramanathapuram	Kadaladi	Sillyyanvagaikkulam	168	0	168	13	13	0
Ramanathapuram	Kadaladi	S.Tharakudi	286	0	286	13	13	0
Salem	Salem	Tirumalaigiri (Ct)	149	0	149	13	13	0
Salem	Salem	Chennagiri (Ct)	239	0	239	13	13	0
Salem	Omalur	Kanavoipudur	253	0	253	13	13	0

Salem	Salem	Puthur Agraharam (Ct)	268	0	268	13	13	0
Salem	Mettur	Chinnasoragai	558	0	558	13	13	0
Salem	Attur	Chinnakalrayanthillsvadakkunadu	830	19	849	13	13	0
Sivaganga	Karaikkudi	Nerupugapatti	232	0	232	13	13	0
Sivaganga	Devakottai	Tiruvegampet	283	0	283	13	13	0
Sivaganga	Tirupathur	Ilankudi	412	0	412	13	13	0
Thanjavur	Pattukkottai	Palaverikadu	115	0	115	13	13	0
Thanjavur	Peravurani	Kaiviniyayal	144	0	144	13	13	0
Thanjavur	Orthanadu	Kelavaniyapet	162	0	162	13	13	0
Thanjavur	Thanjavur	Kurungulam Keelpathi	225	0	225	13	13	0
Thanjavur	Pattukkottai	Pulavanji	274	0	274	13	13	0
Thanjavur	Thanjavur	Marudakkudi	289	0	289	13	13	0
The Nilgiris	Panthalur	Munnanad	171	0	171	13	13	0
The Nilgiris	Panthalur	Erumad	782	0	782	13	13	0
Theni	Uthamapalayam	Chinnaovalapuram	336	0	336	13	13	0
Theni	Uthamapalayam	Thevaram	340	0	340	13	13	0
Thiruvallur	Pallipattu	Nochili	203	17	220	13	12	1
Thiruvallur	Tiruttani	Pattabiramapuram	238	0	238	13	13	0
Thiruvallur	Pallipattu	Kodivalasa (Ct)	258	0	258	13	13	0
Thiruvallur	Kodavasal	Koonthalur	187	0	187	13	13	0
Thiruvallur	Mannargudi	Kuruchimoolai -I	200	0	200	13	13	0
Thiruvallur	Mannargudi	Vaduvur Thenpathi I	255	0	255	13	13	0
Tiruchirappalli	Srirangam	Ammapetta	191	0	191	13	13	0
Tiruchirappalli	Thuraiyur	Vairchetipalayam	412	0	412	13	13	0
Tiruchirappalli	Manapparai	Kannudayanpatti	981	0	981	13	13	0
Tirunelveli	Radhapuram	Adangarkulam	120	0	120	13	13	0
Tirunelveli	Nanguneri	Thottakudi	197	0	197	13	13	0
Tirunelveli	Nanguneri	Rajakkalmangalam	239	0	239	13	13	0
Tirunelveli	Ambasamudram	Kilakadayam	274	0	274	13	13	0
Tirunelveli	Nanguneri	Dalapathi Samudram	544	0	544	13	13	0
Tirunelveli	Tirunelveli	Ukkirankottai	640	0	640	13	13	0
Tiruppur	Palladam	Velarasivadamalaipalayam	231	0	231	13	13	0
Tiruppur	Madathukulam	Myyadi	344	0	344	13	13	0
Tiruppur	Tiruppur	Tiruppur (M) - Ward No.36	433	23	456	13	12	1
Tiruvannamalai	Tiruvannamalai	Udayanandal	103	0	103	13	13	0
Tiruvannamalai	Vandavasi	Chitharugavoor	185	0	185	13	13	0
Tiruvannamalai	Cheyar	Akkur	212	0	212	13	13	0
Tiruvannamalai	Vandavasi	Kolipuliyur	243	0	243	13	13	0
Tiruvannamalai	Chengam	Melvanakkambadi	397	0	397	13	13	0
Tiruvannamalai	Vandavasi	Marudhadu	718	0	718	13	13	0
Tuticorin	Kovilpatti	Vellalankottai	178	0	178	13	13	0
Tuticorin	Tiruchendur	Nangaimozhi	188	0	188	13	13	0
Tuticorin	Kovilpatti	Idaiseval	330	0	330	13	13	0
Vellore	Jolarpet	Jolarpet (TP) - Ward No.12	117	0	117	13	13	0
Vellore	Gudiyatham	Viludonapaliyam	180	0	180	13	13	0
Vellore	Vellore	Okkanapuram	198	0	198	13	13	0
Vellore	Arakonam	Pazayapalayam	247	0	247	13	13	0
Vellore	Arakonam	Ayipedu	316	0	316	13	13	0
Vellore	Arakonam	Thanigaipollur	389	0	389	13	13	0
Vellore	Gudiyatham	Thattaparai	586	0	586	13	13	0
Villupuram	Viluppuram	Virattikuppam	122	0	122	13	13	0
Villupuram	Viluppuram	Kolippattu	151	0	151	13	13	0
Villupuram	Gingee	Kalladikuppam	174	0	174	13	13	0
Villupuram	Gingee	Annamangalam	197	0	197	13	13	0
Villupuram	Tirukkoyilur	Veerashozhapuram	223	0	223	13	13	0
Virudhunagar	Sundarapandiam	Sundarapandiam (TP) - Ward No.4	161	0	161	13	13	0
Virudhunagar	Sattur	Kundalakkuttu	261	0	261	13	13	0
Villupuram	Sankarapuram	Manjupathur	269	0	269	13	13	0
Villupuram	Tirukkoyilur	Murukkambadi	323	0	323	13	13	0
Villupuram	Sankarapuram	Lakkinayakkanpatti	324	0	324	13	13	0
Villupuram	Kallakurichi	Paithan	338	0	338	13	13	0
Virudhunagar	Tiruchuli	M.Pudukkulam	148	0	148	13	13	0
Virudhunagar	Sivakasi	Anuppankulam (Ct)	240	0	240	13	13	0
Virudhunagar	Rajapalayam	Kollankondan	264	0	264	13	13	0
Chennai	Chennai	Chennai (M Corp.) - Ward No.79	113	13	126	13	12	1
Chennai	Chennai	Chennai (M Corp.) - Ward No.153	155	49	204	13	10	3
		Total	36362	378	36740	1638	1622	16

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in India

Abbreviations:  
a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo  
f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 126	1638
Reserved Random Villages 0	0
Total Samples	1638



**BRU/SEROMON/NIVEDI/Telangana\_32/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 1419

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.024

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 138 (+3 Reserved villages)

Total No of Animals to be Sampled = 1794

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Adilabad	Bouth	Kanteagon	122	0	122	13	13	0
Adilabad	Bazarathnoor	Bazarhatnur	195	0	195	13	13	0
Adilabad	Bazarathnoor	Bhutai (Buzurg)	221	0	221	13	13	0
Adilabad	Utnoor	Danthanpalle	325	0	325	13	13	0
Adilabad	Inderavelly	Ginnera	326	0	326	13	13	0
Adilabad	Adilabad Rural	Chanda	465	0	465	13	13	0
BHADRADRI KOTHAGUDEM	Annareddyapalli	Annadevam	129	0	129	13	13	0
BHADRADRI KOTHAGUDEM	Aswaraopeta	Khammampad	166	0	166	13	13	0
BHADRADRI KOTHAGUDEM	Mulkalapalle	Chaparalapalle	224	0	224	13	13	0
BHADRADRI KOTHAGUDEM	Julurpad	Padamata Narsapuram	89	163	252	13	5	8
BHADRADRI KOTHAGUDEM	Mulkalapalle	Thimmampeta	499	0	499	13	13	0
BHADRADRI KOTHAGUDEM	Allapalli	Allapalle	587	215	802	13	10	3
JANGOAN	Chilpur	Nashkal	43	181	224	13	2	11
JANGOAN	Jangoan	Gangupahad	277	0	277	13	13	0
JAYASHANKAR BHUPALAPALLY	Regonda	Jaggaiapet	7	110	117	13	1	12
JAYASHANKAR BHUPALAPALLY	Venkatapuram	Suraveedu (Z)	128	0	128	13	13	0
JAYASHANKAR BHUPALAPALLY	Venkatapuram	Wadagudem (Z)	149	0	149	13	13	0
JAYASHANKAR BHUPALAPALLY	Mutharam (Mahadevapur)	Borlagudem	182	0	182	13	13	0
JAYASHANKAR BHUPALAPALLY	Eturnagaram	Gogubelle	146	55	201	13	9	4
JAYASHANKAR BHUPALAPALLY	Wazeed	Wazeed(G)	266	0	266	13	13	0
JOGULAMBA GADWAL	Dharur	Palcherla	158	0	158	13	13	0
JOGULAMBA GADWAL	Rajoli	Pedda Thandrapadu	104	210	314	13	4	9
JOGULAMBA GADWAL	Dharur	Chintharevula	289	283	572	13	7	6
Jagtiyal	Pegadapalle	Araveli	122	0	122	13	13	0
KAMAREDDY	Tadwai	Karadpalle	114	0	114	13	13	0
KAMAREDDY	Machareddy	Banda Rameshwaripalle	65	62	127	13	7	6
KAMAREDDY	Lingampet	Motha	144	0	144	13	13	0
KAMAREDDY	Bibipet	Tujalpur	32	150	182	13	2	11
KAMAREDDY	Nagareddipet	Zapti Jankampalle	615	0	615	13	13	0
KAMAREDDY	Machareddy	Banjapally	730	0	730	13	13	0
KUMURAM BHEEM	Kagaz Nagar	Kagaznagar Ward No.10	43	83	126	13	4	9
KUMURAM BHEEM	Sirpur	Phullara	220	0	220	13	13	0
KUMURAM* BHEEM	Penchicalpet	Chedvai	247	0	247	13	13	0
KUMURAM BHEEM	Chintalmanepally	Ravindranagar	284	0	284	13	13	0
KUMURAM BHEEM	Wankdi	Khamana	586	698	1284	13	6	7
Karimnagar	Jammikunta	Dharmaram (P.B) (C)	46	148	194	13	3	10
Karimnagar	Saidapur	Godisala	379	0	379	13	13	0
Khammam	Penuballi	Lankapalle	143	0	143	13	13	0
Khammam	Enkuru	Thimmaraoopeta	178	0	178	13	13	0
Khammam	Kamepalle	Ponnekal	206	0	206	13	13	0
Khammam	Kallur	Mucharam	11	210	221	13	1	12
Khammam	Kusumanchi	Gaigollapalle	292	0	292	13	13	0
Khammam	Kamepalle	Jasthipalli	378	0	378	13	13	0
MAHABUBABAD	Garla	Pulluru	248	0	248	13	13	0
MAHABUBABAD	Bayyaram	Gowraram	301	0	301	13	13	0
MAHABUBABAD	Gangaram	Madigudem	358	0	358	13	13	0
MANCHERIAL	Chennur	Chennur (C)	132	0	132	13	13	0
MANCHERIAL	Jannaram	Kalmadagu	154	0	154	13	13	0
MANCHERIAL	Kotapalle	Arjungutta	195	0	195	13	13	0
MANCHERIAL	Bellampalle	Perkapalle	264	168	432	13	8	5
MANCHERIAL	Bhimini	Wadal	479	0	479	13	13	0
MEDCHAL MALKAJGIRI	Uppal	GHMC Uppal_Bhagathi Ward-10:	30	149	179	13	2	11
MEDCHAL MALKAJGIRI	Alwal	GHMC Macha Bollaram Ward-133:	377	533	910	13	5	8
Mahbubnagar	Nawabpet	Kakarjala	111	0	111	13	13	0
Mahbubnagar*	MARIKAL	Kanmanur	158	0	158	13	13	0
Mahbubnagar	Gandeed	Kaplapur	173	0	173	13	13	0
Mahbubnagar	MARIKAL	Peddachintakunta	181	0	181	13	13	0
Mahbubnagar	MARIKAL	Teclair	73	165	238	13	4	9
Mahbubnagar	Nawabpet	Rekulachowdapur	236	17	253	13	12	1
Mahbubnagar	Maddur	Renvatla	270	0	270	13	13	0

Mahbubnagar	Gandeed	Salkerpet	941	0	941	13	13	0
Medak	Shivampet	Pedda Gottimukkala	64	109	173	13	5	8
Medak	Medak	Rayanpalle	199	0	199	13	13	0
Medak	Narsapur	Kagazmaddur	256	0	256	13	13	0
NAGARKURNOOL	Pentavelli	Pentavelli	39	115	154	13	3	10
NAGARKURNOOL	Kalwakurthy	Marchal	190	0	190	13	13	0
NAGARKURNOOL	Bijimpalle	Latpalle	201	0	201	13	13	0
NAGARKURNOOL	Vangoor	Mittasagude	104	155	259	13	5	8
NAGARKURNOOL	Veldanda	Rachur	490	0	490	13	13	0
Nalgonda	Konda Mallepally	Chinthakuntla	102	0	102	13	13	0
Nalgonda	Kangal	Turka Palle	131	0	131	13	13	0
Nalgonda	Kattangoor	Kurumathy	5	156	161	13	0	13
Nalgonda	Gundla Palle	Bogguladona	172	0	172	13	13	0
Nalgonda	Devarakonda	Devarakonda (CT) - Ward No.3	93	157	250	13	5	8
Nalgonda	Devarakonda	Telugupally	137	136	273	13	7	6
Nalgonda	Tirumalagiri Sagar	Nehatapur	291	0	291	13	13	0
Nalgonda	Adavidevulapalli	Adavi Devula Palle	49	366	415	13	2	11
Nalgonda	Sali Gouraram	Vallala	122	391	513	13	3	10
Nirmal	Dilawarpur	Kalva	107	0	107	13	13	0
Nirmal	Sarangapur	Jam	145	0	145	13	13	0
Nirmal	Kuntala	Kuntala	195	0	195	13	13	0
Nirmal	Dasturabad	Bhuthkur	83	138	221	13	5	8
Nirmal	Dasturabad	Dasturabad	244	0	244	13	13	0
Nirmal	Dasturabad	Munnial	338	0	338	13	13	0
Nizamabad	Bheemgal	Lingapurhouth	4	99	103	13	1	12
Nizamabad	Bodhan	Hunsa	135	0	135	13	13	0
Nizamabad	Varni	Govoora	167	0	167	13	13	0
Nizamabad	Ranjil	Kandakurthi	199	0	199	13	13	0
Nizamabad	NIZAMABAD	Nizamabad (M) - Ward No.35	187	68	255	13	10	3
Nizamabad	Yergatla	Tadla Rampur	72	212	284	13	3	10
Nizamabad*	Nizamabad Rural	Malkapoor Thanda	745	0	745	13	13	0
PEDDAPALLI	Sultanabad	Garrepalle	141	0	141	13	13	0
PEDDAPALLI	Elgaid	Sivapalle	142	0	142	13	13	0
Rangareddi	Farooqanagar	Devunipally	117	0	117	13	13	0
Rangareddi	Maheswaram	Kollapadkal	140	0	140	13	13	0
Rangareddi	Madgul	Madgul	209	0	209	13	13	0
Rangareddi	Madgul	Nagilla	235	0	235	13	13	0
Rangareddi	Abdullapurmet	Turkayamjal (Ct)	57	268	325	13	2	11
Rangareddi	Amangal	Akuthotapalle	341	0	341	13	13	0
Rangareddi	Kadthal	Mudwin	1040	0	1040	13	13	0
SANGAREDDY	Narayankhed	Hangarga [B]	114	0	114	13	13	0
SANGAREDDY	Zahirabad	Burdipahad	80	62	142	13	7	6
SANGAREDDY	Sirgapoor	Ujalampahad	175	0	175	13	13	0
SANGAREDDY	Kangri	Tadkal	180	0	180	13	13	0
SANGAREDDY	Sirgapoor	Sirgapoor	203	0	203	13	13	0
SANGAREDDY	Kalher	Kalher	263	0	263	13	13	0
SANGAREDDY	Sirgapoor	Kadpal	318	0	318	13	13	0
SANGAREDDY	Mogudampally	Mogdampalle	348	0	348	13	13	0
SANGAREDDY	Nagligidda	Errakipalle	371	0	371	13	13	0
SIDDIPET	Kondapak	Kondapak	130	0	130	13	13	0
SIDDIPET	Kondapak	Sirsingandla	148	0	148	13	13	0
SIDDIPET	Akkannapet	Anthakkapeta	186	0	186	13	13	0
SIDDIPET	Siddipet Rural	Raorukal	216	0	216	13	13	0
SIDDIPET	Cherial	Nagapuri	128	274	402	13	4	9
SURYAPET	Thungathurthi	Ravula Palle	118	0	118	13	13	0
SURYAPET	Chinthalapalem	Donda Padu	131	0	131	13	13	0
SURYAPET	Thungathurthi	Gottiparthi	148	0	148	13	13	0
SURYAPET	Munagala	Madhavaram	228	0	228	13	13	0
SURYAPET	Chinthalapalem	Thammaram	278	0	278	13	13	0
SURYAPET	Munagala	Kalakova	885	0	885	13	13	0
VIKARABAD	Padur	Somangurthy	118	0	118	13	13	0
VIKARABAD	Vicarabad	Maijardevrampalle	126	0	126	13	13	0
VIKARABAD	Momimpet	Durgamcheru	142	0	142	13	13	0
VIKARABAD	Doma	Sivareddipalle	73	93	166	13	6	7
VIKARABAD	Kulkacharla	Chowdapur	176	0	176	13	13	0
VIKARABAD	Kodangal	Kodangal	227	0	227	13	13	0
WANAPARTHY	Ghanpur	Mamidimada	146	0	146	13	13	0
WANAPARTHY	Srirangapur	Kamballapur	177	0	177	13	13	0
WARANGAL URBAN	Velair	Peechera	105	298	403	13	3	10
WARANGAL URBAN	Warangal	Warangal (GWMC) - Ward	38	418	456	13	1	12
Warangal Rural	Damera	Oorugonda	9	144	153	13	1	12

Warangal Rural	Duggondi	Madhira Mandapalle	4	209	213	13	0	13
YADADRI BHUVANAGIRI	Bhongir	Rayagiri (R)	128	0	128	13	13	0
YADADRI BHUVANAGIRI	M.Turkapalle	Dattai Palle	164	0	164	13	13	0
YADADRI BHUVANAGIRI	Mothkur	Dattappaguda	180	0	180	13	13	0
YADADRI BHUVANAGIRI	Bhongir	Bhongir (M) - Ward No.15	140	54	194	13	9	4
YADADRI BHUVANAGIRI	Bibinagar	Battugudem	49	174	223	13	3	10
RAJANNA SIRCLLA	Veermapalli	Garjanpalle	207	0	207	13	13	0
RAJANNA SIRCLLA	Yellareddipet	Veernapalle	502	0	502	13	13	0
Hyderabad	Bahadurpura	GHMC Ward-54: Jilhanuma	64	192	256	13	3	10
Hyderabad	Asif Nagar	GHMC Ward-72: Asifnagar	139	374	513	13	4	9
		<b>Total</b>	<b>29863</b>	<b>8262</b>	<b>38125</b>	<b>1833</b>	<b>1471</b>	<b>362</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

**Abbreviations:**

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 138  
Reserved Random Villages 3  
Total Samples

1794  
39  
1833

**BRU/SEROMON/NIVEDI/Tripura\_33/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 490

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.036

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 91

Total No of Animals to be Sampled = 1183 (Restricted)

DISTRICT_NAME	TAHSIL_NAME	VILLAGE_NAME	under_1year_Fcattle	under_1year_Fbuffalo	under_1year_Fbovine	No of units to Sample	Cattle Population	Buffalo Population	
Dhalai	Salerna	North Kachucherra	140	0	0	140	13	13	0
Dhalai	Durga Chowmahani	Mayachhari	183	0	0	183	13	13	0
Dhalai	Manu	Jamirchhara	188	0	0	188	13	13	0
Dhalai	Durga Chowmahani	Debhichhara	194	0	0	194	13	13	0
Dhalai	Durga Chowmahani	Manik Bhandar	199	0	0	199	13	13	0
Dhalai	Salerna	Paschim Dulochhara	218	0	0	218	13	13	0
Dhalai	Salerna	Salerna	252	0	0	252	13	13	0
Dhalai	Salerna	Parba Dalachhara	273	0	0	273	13	13	0
Dhalai	Durga Chowmahani	Chotasuma	290	0	0	290	13	13	0
Dhalai	Durga Chowmahani	Durai Shibbari	303	0	0	303	13	13	0
Dhalai	Salerna	Baraltna	366	0	0	366	13	13	0
Gomati	Karbook	Chellagang	108	0	0	108	13	13	0
Gomati	Killa	Dakshin Baramura	139	0	0	139	13	13	0
Gomati	Onpi	Ampingur	147	0	0	147	13	13	0
Gomati	Karbook	Paschim Manikya Dewan	181	0	0	181	13	13	0
Gomati	Tepania	Tepania	196	0	0	196	13	13	0
Gomati	Matarbari	Jowalkhumur	204	0	0	204	13	13	0
Gomati	Kakraban	Tulanura	235	0	0	235	13	13	0
Gomati	Killa	Raiabari	257	0	0	257	13	13	0
Gomati	Matarbari	Parba Maggoshkarini	263	0	0	263	13	13	0
Gomati	Karbook	Patichhari	267	0	0	267	13	13	0
Gomati	Tepania	Barabhuia	281	0	0	281	13	13	0
Gomati	Karbook	Dakshin Chulagang	352	0	0	352	13	13	0
Gomati	Amarpur	Karmachhara	606	0	0	606	13	13	0
Khowai	Khowai	Sepahour	113	0	0	113	13	13	0
Khowai	Khowai	Uttar Ranchandraghat	125	0	0	125	13	13	0
Khowai	Padmabil	Dakshin Ranchandraghat	143	0	0	143	13	13	0
Khowai	Teliamura	Dakshin Pulipur	150	0	0	150	13	13	0
Khowai	Teliamura	Chuknaghat	179	0	0	179	13	13	0
Khowai	Kalyanpur	Paschim Ghatalai	189	0	0	189	13	13	0
Khowai	Teliamura	Maitgangs	204	0	0	204	13	13	0
Khowai	Teliamura	Uttar Krishnanagar	273	0	0	273	13	13	0
Khowai	Teliamura	Madhya Krishnanagar	294	0	0	294	13	13	0
Khowai	Khowai	Laxminarayanpur	330	0	0	330	13	13	0
North Tripura	Dasda	Dakshin Tuisama	121	0	0	121	13	13	0
North Tripura	Dasda	Dakshin Dasda	137	0	0	137	13	13	0
North Tripura	Kalacherra	Gobindapur	160	0	0	160	13	13	0
North Tripura	Panisagar	Bilhai	215	0	0	215	13	13	0
North Tripura	Panisagar	Uttar Deocherra	227	0	0	227	13	13	0
North Tripura	Kadamtala	Kalgangapur	251	0	0	251	13	13	0
North Tripura	Kalacherra	North Huna	278	0	0	278	13	13	0
North Tripura	Jaborainagar	Dhupirband	306	0	0	306	13	13	0
North Tripura	Kadamtala	Sarala	333	0	0	333	13	13	0
North Tripura	Lajuri	Kanchampur	603	0	0	603	13	13	0
Sepuhjala	Kathalia	Jagtrampur	110	0	0	110	13	13	0
Sepuhjala	Charilam	Borjala	152	0	0	152	13	13	0
Sepuhjala	Boxanagar	Dakshin Kalamchhara	186	0	0	186	13	13	0
Sepuhjala	Charilam	Uttar Charilam	209	0	0	209	13	13	0
Sepuhjala	Boxanagar	Kulbari	226	0	0	226	13	13	0
Sepuhjala	Bishalgarh	Champurura	229	0	0	229	13	13	0
Sepuhjala	Jangujjala	Amarendranagar	251	0	0	251	13	13	0
Sepuhjala	Bishalgarh	Prabharanpur	337	0	0	337	13	13	0
Sepuhjala	Boxanagar	Rahimpur	338	0	0	338	13	13	0
Sepuhjala	Charilam	Satamura	369	0	0	369	13	13	0
Sepuhjala	Bishalgarh	Chandranagar	443	0	0	443	13	13	0
Sepuhjala	Boxanagar	Manikyanagar	689	0	0	689	13	13	0
South Tripura	Satchand	Manabazar	107	0	0	107	13	13	0
South Tripura	Hrisyamakh	Matai	140	0	0	140	13	13	0
South Tripura	Rajnagar	Jashmura	154	0	0	154	13	13	0
South Tripura	Satchand	Parba Julefa	187	0	0	187	13	13	0

South Tripura	Jalabari	Paschim Charakba	192	0	192	13	13	0
South Tripura	Jalabari	Birendranagar	193	0	193	13	13	0
South Tripura	Jalabari	Muhuripur R.F.	207	0	207	13	13	0
South Tripura	Rajnagar	Barapathari	276	0	276	13	13	0
South Tripura	Hrishyamakh	Dakshin Souachhari	286	0	286	13	13	0
South Tripura	Poungbari	Madhabnagar	384	0	384	13	13	0
South Tripura	Jalabari	West Pitalak	506	0	506	13	13	0
South Tripura	Jalabari	Ranraibari	522	0	522	13	13	0
Unakoti	Chandipur	Golakpur	109	0	109	13	13	0
Unakoti	Gournagar	Ranguati	161	0	161	13	13	0
Unakoti	Kamarghat	Paschim Raachhara	200	0	200	13	13	0
Unakoti	Gournagar	Yeojakhowra	209	6	215	13	13	0
Unakoti	Kamarghat	Lajuri	250	0	250	13	13	0
Unakoti	Chandipur	Chhentali	360	0	360	13	13	0
Unakoti	Kamarghat	Purba Ratachhara	393	0	393	13	13	0
West Tripura	Agartala Municipal	Ward No.49	104	0	104	13	13	0
West Tripura	Old Agartala	Purba Champamura	107	0	107	13	13	0
West Tripura	Dakli	Chowmuhani Bazar	127	0	127	13	13	0
West Tripura	Dakli	Kathatali	128	0	128	13	13	0
West Tripura	Jazma	Kobrakhamar	133	0	133	13	13	0
West Tripura	Hezamara	Domrakaridak	165	0	165	13	13	0
West Tripura	Dakli	Malyanagar	172	0	172	13	13	0
West Tripura	Dakli	Kanchamula	173	0	173	13	13	0
West Tripura	Dakli	Satyamaninagar	176	0	176	13	13	0
West Tripura	Mohampur	South Taranagar	184	0	184	13	13	0
West Tripura	Mohampur	Mohampur	202	0	202	13	13	0
West Tripura	Dakli	Balabpur	217	0	217	13	13	0
West Tripura	Old Agartala	Mekhalipara	247	0	247	13	13	0
West Tripura	Dakli	Belabar	265	0	265	13	13	0
West Tripura	Mohampur	Mantala	360	0	360	13	13	0
West Tripura	Mohampur	Vidhyasagar	419	0	419	13	13	0
		<b>Total</b>	<b>22027</b>	<b>6</b>	<b>22033</b>	<b>1183</b>	<b>1183</b>	<b>0</b>

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

**Abbreviations:**  
**a:** District Name  
**b:** Tahsil Name  
**c:** Village Name  
**d:** under\_1year\_Fcattle  
**e:** under\_1year\_Fbuffalo  
**f:** under\_1year\_Fbovine  
**g:** Number of units to Sample  
**h:** Cattle Proportion  
**i:** Buffalo Proportion

**Random Villages 91**  
**Reserved Random Villages 0**  
**Total Samples 1183**

**1183**  
**0**  
**1183**

## BRU/SEROMON/NIVEDI/Uttar Pradesh34/Phase III

## Stratified Random Sampling:

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 250 + (under\_1year\_Fbovine) = 1977

Design Level Prevalence = 0.2

Cluster Level Prevalence = 0.026

Sensitivity of the test used = 0.9

Specificity Level Prevalence = 0.9

Total No of Villages (Clusters) Selected = 127 (+12 Reserved villages)

Total No of Animals to be Sampled = 1651

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Agra	Kheragarh	Ladukhera	844	0	844	13	13	0
Aligarh	Koil	Dhanipur (Ct)	539	0	539	13	13	0
Aligarh	Khair	Keelpur	110	430	540	13	3	10
Allahabad	Allahabad	Allahabad (M Corp.) - Ward	0	357	357	13	0	13
Allahabad	Handia	Tela Khas	203	341	544	13	5	8
Allahabad	Phulpur	Kanihar	356	734	1090	13	4	9
Ambedkar Nagar	Akbarpur	Sikrohar	184	173	357	13	7	6
Ambedkar Nagar	Bhiti	Naser Pur Pakadamur	531	494	1025	13	7	6
Amethi	Amethi	Uttargaon	363	0	363	13	13	0
Amethi	Amethi	Jangal Ramnagar	786	0	786	13	13	0
Amroha*	Hasanpur	Patil Khadar	158	332	490	13	4	9
Amroha	Hasanpur	Paurara Mustkam	879	0	879	13	13	0
Auraiya	Bidhuna	Kudar Kot	70	258	328	13	3	10
Auraiya	Auraiya	Pasapur Keshampur	7	572	579	13	0	13
Azamgarh	Mehnagar	Bhikaso	158	138	296	13	7	6
Azamgarh	Sagri	Chewata	304	0	304	13	13	0
Azamgarh	Azamgarh	Barahatir Jaedishpur (Ct)	312	0	312	13	13	0
Azamgarh	Phulpur	Bibi Ganj	123	253	376	13	4	9
Azamgarh	Azamgarh	Tamauli	226	234	460	13	6	7
Baghpat*	Baraut	Shahpur Baroli	347	0	347	13	13	0
Bahraich	Mahasi	Mahsi	380	0	380	13	13	0
Bahraich	Kaiserganj	Godahiya No. 1To 4	1279	2134	3413	13	5	8
Ballia	Belhara Road	Haldi Rampur	350	0	350	13	13	0
Ballia	Ballia	Madadih	870	0	870	13	13	0
Balrampur	Tulsipur	Gulriha Hisampur	338	0	338	13	13	0
Balrampur	Balrampur	Balrampur(Rural)	114	1422	1536	13	1	12
Banda	Naraini	Khalari	27	366	393	13	1	12
Banda	Pailani	Sindhan Kalan	438	0	438	13	13	0
Barabanki	Haidergarh	Jauras	208	164	372	13	7	6
Barabanki	Nawabganj	Bhitauli Kalan	179	234	413	13	6	7
Bareilly	Bareilly	Bareilly (M Corp.) - Ward No.16	166	272	438	13	5	8
Bareilly *	Bareilly	Bareilly (M Corp.) - Ward No.39	386	278	664	13	8	5
Bareilly	Bareilly	Bareilly (M Corp.) - Ward No.58	135	993	1128	13	2	11
Bijnor	Dhampur	Alhaiipur (Ct)	457	0	457	13	13	0
Bijnor	Dhampur	Mozampur Zaitra	499	0	499	13	13	0
Bijnor	Dhampur	Suhagpur Bila Ahatmali	153	448	601	13	3	10
Budaun	Dataganj	Katra Sadatganj	114	253	367	13	4	9
Budaun	Dataganj	Daharpur Kalan	185	318	503	13	5	8
Bulandshahr	Siana	Bathada Vajidpur	107	237	344	13	4	9
Bulandshahr	Anupshahr	Ahar Bangar	119	404	523	13	3	10
Chandauli	Sakaldiha	Zara Haradhan	378	0	378	13	13	0
Chandauli	Chandauli	Kundaliya	521	0	521	13	13	0
Chitrakoot	Karwi	Nandi	235	203	438	13	7	6
Deoria	Bhatni Bazar	Bhatni Bazar (NP) - Ward No.3	191	158	349	13	7	6
Deoria	Bhatpar Rani	Khampar	319	189	508	13	8	5
Etah	Aliganj	Angraiya Jamunai	39	377	416	13	1	12
Etah*	Etah	Chathi Rafipur	117	554	671	13	2	11
Etawah	Chakarnagar	Piprol Gadhiya	468	0	468	13	13	0
Etawah	Etawah	Sarsai Helu	101	420	521	13	3	10
Faizabad	Milkipur	Bhakhawli	329	0	329	13	13	0
Faizabad	Sohawal	Kot Saray	145	360	505	13	4	9
Farrukhabad	Farrukhabad	Naglabag Rathaure	393	0	393	13	13	0
Farrukhabad	Farrukhabad	Dhilawal	393	366	759	13	7	6
Fatehpur	Fatehpur	Samdabad Kuchahti	30	334	364	13	1	12
Fatehpur	Bindki	Farchalpur	19	477	496	13	0	13
Firozabad	Jasrana	Salempur Jasrana	89	335	424	13	3	10
Firozabad	Sirsaganj	Urawar Hastarf	495	0	495	13	13	0
Gautam Buddha Nagar	Dadri	Sunpura Sohanpur	79	241	320	13	3	10
Ghaziabad *	Modinagar	Kidwai Nagar WARD NO. 26	307	296	603	13	7	6
Ghaziipur	Saidpur	Rampur Bantara	426	0	426	13	13	0

Ghazipur	Zamania	Rohra	447	0	447	13	13	0
Ghazipur	Zamania	Deorhi	657	0	657	13	13	0
Gonda	Gonda	Kouria	297	53	350	13	11	2
Gonda	Gonda	Mukulpur Khas	330	171	501	13	9	4
Gorakhpur*	Gorakhpur	Jangl Raneer Sohas Kainwari	440	0	440	13	13	0
Gorakhpur	Gorakhpur	Jangl Chhatra Dhari	262	179	441	13	8	5
Gorakhpur	Gorakhpur	Jangl Ram Lakhani	443	575	1018	13	6	7
Hamirpur	Kurara	Kurara (NP) - Ward No.3	270	101	371	13	9	4
Hapur	Dhaulana	Abdullahpur Modi	34	298	332	13	1	12
Hardoi	Bilgram	Kakerhi	123	342	465	13	3	10
Hardoi	Sandila	Atamau	129	425	554	13	3	10
Hathras	Sikandra Rao	Agrana Jarara	372	0	372	13	13	0
Hathras	Sikandra Rao	Agsauli	642	0	642	13	13	0
Jalaun*	Jalaun	Sikra Raja	404	0	404	13	13	0
Jalaun	Konch	Pirona	828	0	828	13	13	0
Jaunpur	Machhlishahr	Tarahathi	430	0	430	13	13	0
Jaunpur	Shahganj	Sabarabad	564	0	564	13	13	0
Jaunpur	Shahganj	Argooper Kalan	661	0	661	13	13	0
Jhansi	Garautha	Parsuwa	343	0	343	13	13	0
Jhansi	Moth	Mod Khurd	172	284	456	13	5	8
Kannauj	Chhibramau	Jaisingh Pur	553	0	553	13	13	0
Kannauj	Chhibramau	Paraur	1104	0	1104	13	13	0
Kanpur Dehat	Sikandra	Nadhaua	166	257	423	13	5	8
Kanpur Dehat	Derapur	Sargaon Bujurg	178	541	719	13	3	10
Kanpur Nagar	Kanpur	Kanpur (M Corp.) - Ward No.32	143	200	343	13	5	8
Kanpur Nagar	Bilhaul	Radhan	199	347	546	13	5	8
Kasganj	Kasganj	Kampur	24	405	429	13	1	12
Kasganj	Patiyali	Dhansingh Pur	164	368	532	13	4	9
Kaushambi	Manjhanpur	Kanali	158	270	428	13	5	8
Kaushambi	Sarai Aqil	Sarai Aqil (NP) - Ward No.10	165	1393	1558	13	1	12
Kheri	Nighasana	Kharahana	127	276	403	13	4	9
Kheri	Dhaurahara	Belagarhi	149	525	674	13	3	10
Kushi Nagar*	Tamkuhi Raj	Tarya Sujan	379	0	379	13	13	0
Kushi Nagar	Tamkuhi Raj	Ahirauli Dan	414	0	414	13	13	0
Lalitpur	Mahroni	Rangoon	424	0	424	13	13	0
Lucknow	Malhabad	Saspan	189	345	534	13	5	8
Lucknow	Lucknow	Lucknow (M Corp.) - Ward No.2	283	546	829	13	4	9
Mahoba	Mahoba	Chichara	118	321	439	13	3	10
Mainpuri	Mainpuri	Mainpuri (MB) - Ward No.22	104	370	474	13	3	10
Mainpuri	Mainpuri	Mainpuri (MB) - Ward No.2	428	346	774	13	7	6
Mathura*	Goverdhan	Gamboli	95	361	456	13	3	10
Mathura	Chhata	Mahrana	149	481	630	13	3	10
Mau	Maunath Bhanian	Maunath Bhanjan (MB) - Ward No.5	301	180	481	13	8	5
Mau	Muhammabad Gohna	Bhusuwa	281	733	1014	13	4	9
Meerut	Meerut	Meerut (M Corp.) - Ward No.8	216	273	489	13	6	7
Meerut	Sardhana	Aurangnagar Rardhana	438	573	1011	13	6	7
Mirzapur	Chunar	Bidapur	348	20	368	13	12	1
Mirzapur	Mirzapur	Jausara	387	0	387	13	13	0
Moradabad	Moradabad	Moradabad (M Corp.) - Ward	204	234	438	13	6	7
Moradabad	Moradabad	Moradabad (M Corp.) - Ward	173	361	534	13	4	9
Muzaffarnagar	Muzaffarnagar	Badheri	206	155	361	13	7	6
Muzaffarnagar*	Khatauli	Hausainpur Bopara	338	290	628	13	7	6
Pilibhit	Puranpur	Bamanpura Bhagrat	62	267	329	13	2	11
Pilibhit	Pilibhit	Marori Mustqil	182	163	345	13	7	6
Pratapgarh	Raniganj	Pathari Kala	445	0	445	13	13	0
Pratapgarh	Kunda	Parewanaranpur	212	373	585	13	5	8
Rae Bareli	Lalganj	Jogapur Barigoon	169	372	541	13	4	9
Rae Bareli	Rae Bareli	Lodhwari	470	808	1278	13	5	8
Rampur	Rampur	Chamraua	18	296	314	13	1	12
Saharanpur*	Deoband	Chandena Koli Must	350	0	350	13	13	0
Saharanpur	Deoband	Rankhandi	806	0	806	13	13	0
Sambhal	Chandausi	Faridpur Khas	54	276	330	13	2	11
Sambhal	Gunnaur	Davathara Harlala	21	419	440	13	1	12
Sant Ravidas Nagar	Gyanpur	Dasawatpur	378	0	378	13	13	0
Sant Ravidas Nagar	Bhadohi	Chauridanu Patti	526	0	526	13	13	0
Shahjahanpur	Kanth	Yahipur - Ward No.5	113	263	376	13	4	9
Shahjahanpur	Tilhar	Nawada Darobast	856	0	856	13	13	0
Shamli	Shamli	Lilaun	330	0	330	13	13	0
Shravasti	Ikauna	Manoharapur	364	0	364	13	13	0
Sitapur	Laharpur	Laharpur (MB) - Ward No.4	1	324	325	13	0	13
Sitapur	Misrikh	Dudabad	85	325	410	13	3	10

Sonbhadra	Robertsganj	Sirsiathkurai	532	0	532	13	13	0
Sonbhadra	Robertsganj	Kanhra	800	0	800	13	13	0
Sultanpur	Sultanpur	Noughatir	360	0	360	13	13	0
Sultanpur*	Kadipur	Bhoopatipur	338	402	740	13	6	7
Unao	Hasanganj	Hajipur Treha	333	0	333	13	13	0
Unao	Gangaghat	Gangaghat (MB) - Ward No.9	67	618	685	13	1	12
Varanasi	Varanasi	Ateshua	453	0	453	13	13	0
Varanasi	Varanasi	Gosapur Mohaon	803	567	1370	13	8	5
		Total	43659	34221	77880	1807	1061	746

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 127  
Reserved Random Villages 12  
Total Samples

1651  
156  
1807



**BRU/SEROMON/NIVEDI/Uttarakhand\_35/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 10 + (under\_1year\_Fbovine) = 6097

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.031

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 105

Total No of Animals to be Sampled = 1191 (Restricted)

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
Almora	Almora	Silkhora	14	0	14	9	9	0
Almora	Someshwar	Bhana Rath	16	0	16	10	10	0
Almora	Dhaulichhina	Pandetoli	20	0	20	10	10	0
Almora	Ranikhet	Pande Kota	22	0	22	10	10	0
Almora	Sult	Jhargion	26	0	26	11	11	0
Almora	Ranikhet	Kalanu	29	0	29	11	11	0
Almora	Someshwar	Jal Dhaular	32	0	32	11	11	0
Almora	Ranikhet	Siwali	27	12	39	12	8	4
Almora	Dwarahat	Nayl	42	0	42	12	12	0
Almora	Ranikhet	Kulsibi	50	0	50	12	12	0
Almora	Lamgada	Dhoora Sangroli	59	0	59	12	12	0
Almora	Dhaulichhina	Puna Kote	62	0	62	12	12	0
Bageshwar	Kanda	Balgari Dhurpatt	12	0	12	9	9	0
Bageshwar	Garud	Silli	20	0	20	10	10	0
Bageshwar	Kapkot	Teekh	22	0	22	10	10	0
Bageshwar	Garud	Dhyonai	31	0	31	11	11	0
Bageshwar	Shama	Lathi	78	0	78	12	12	0
Bageshwar	Bageshwar	Bageshwar (MB) -Bilonasera Ward	52	29	81	12	8	4
Champawat	Champawat	Kathnauli	19	0	19	10	10	0
Champawat	Barakot	Khakora	43	0	43	12	12	0
Champawat	Poornagiri	Baramdev	44	0	44	12	12	0
Champawat	Lohaghat	Jankande	51	0	51	12	12	0
Champawat	Lohaghat	Koyati Khalsa	72	0	72	12	12	0
Dehradun	Vikas Nagar	Gujara Karan Pur	26	0	26	11	11	0
Dehradun	Dehradun	Dehradun (M.Corp) -Dobhal Chauli	45	0	45	12	12	0
Dehradun	Vikas Nagar	Khera Pahuwa	50	0	50	12	12	0
Dehradun	Vikas Nagar	Shisham Bara	104	0	104	13	13	0
Dehradun	Vikas Nagar	Athan Bagh	128	0	128	13	13	0
Dehradun	Rishikesh	Sahab Nagar	351	0	351	13	13	0
Haridwar	Manglaur	Manglaur (MB) -Baharkila Ward N	1	12	13	9	1	8
Haridwar	Manglaur	Manglaur (MB) - Chamaran Khalsa	4	32	36	11	1	10
Haridwar	Roorkee	Kishanpur Jamalpur	78	0	78	12	12	0
Haridwar	Roorkee	Mehmadkhurd Uri Nagal	96	0	96	13	13	0
Haridwar	Haridwar	Pathari Forest Range	110	0	110	13	13	0
Haridwar	Haridwar	Katarpur Alipur	148	0	148	13	13	0
Nainital	Dhari	Managhare Kham	17	0	17	10	10	0
Nainital	Dhari	Thalari	28	0	28	11	11	0
Nainital	Haldwani	Malla Chorgaliya	32	0	32	11	11	0
Nainital	Lalkuan	Haripur Bhandeo	21	11	32	11	7	4
Nainital	Kosya Kirtauli	Kaphura	40	9	49	12	10	2
Nainital	Lalkuan	Bhagwanpur Durgadatt	93	0	93	13	13	0
Nainital	Nainital	Jangalia Gaon Ganja	96	0	96	13	13	0
Nainital	Nainital	Bausi	105	0	105	13	13	0
Nainital	Kaladhungi	Kamola	144	0	144	13	13	0
Pauri Garhwal	Lansdowne	Kolagad	13	0	13	9	9	0
Pauri Garhwal	Thailtsain	Dadoli Talli	14	0	14	9	9	0
Pauri Garhwal	Rikhamkhal	Silgoan Malla	16	0	16	10	10	0
Pauri Garhwal	Chaubatta	Musansaun	18	0	18	10	10	0
Pauri Garhwal	Rikhamkhal	Kaligaon Talla	21	0	21	10	10	0
Pauri Garhwal	Srinagar	Silwar Gaon	21	0	21	10	10	0
Pauri Garhwal	Pauri	Aneth	24	0	24	11	11	0
Pauri Garhwal	Chaubatta	Harkot Talla	30	0	30	11	11	0
Pauri Garhwal	Chaubatta	Ubot	31	0	31	11	11	0
Pauri Garhwal	Chaubatta	Chambada	33	0	33	11	11	0
Pauri Garhwal	Dhoomakot	Pholtanda	34	0	34	11	11	0
Pauri Garhwal	Lansdowne	Batal Bari	34	0	34	11	11	0
Pauri Garhwal	Srinagar	Midwan Gaon	41	0	41	12	12	0
Pauri Garhwal	Pauri	Maklori	41	0	41	12	12	0
Pauri Garhwal	Srinagar	Gahal	45	0	45	12	12	0
Pauri Garhwal	Lansdowne	Kandakhari	46	0	46	12	12	0

Pauri Garhwal	Pauri	Kesundar	47	0	47	12	12	0
Pauri Garhwal	Yamkeshwar	Bhadashi	59	0	59	12	12	0
Pauri Garhwal	Pauri	Tamlas	85	0	85	12	12	0
Pauri Garhwal	Kotdwara	Kotdwara (M.Corp) -Nimbuchaud	247	0	247	13	13	0
Pithoragarh	Pithoragarh	Salam Gaon	17	0	17	10	10	0
Pithoragarh	Munsiari	Pyangti	18	0	18	10	10	0
Pithoragarh	Gangolihat	Dyulhara Kote	27	0	27	11	11	0
Pithoragarh	Pithoragarh	Pathar Khani	27	0	27	11	11	0
Pithoragarh	Pithoragarh	Dungari Rawal	33	0	33	11	11	0
Pithoragarh	Pithoragarh	Bish Kholi	53	0	53	12	12	0
Pithoragarh	Gangolihat	Kuthera	70	0	70	12	12	0
Pithoragarh	Pithoragarh	Pithoragarh Aaincholi (MB) - Ward	80	1	81	12	12	0
Pithoragarh	Pithoragarh	Marsoli Bhat	147	0	147	13	13	0
Rudraprayag	Ukhimath	Daira	28	0	28	11	11	0
Rudraprayag	Ukhimath	Rudrpur	42	0	42	12	12	0
Rudraprayag	Ukhimath	Jalmalla	49	0	49	12	12	0
Tehri Garhwal	Ghamsali	Rani Dang May Ghutai Palla	13	0	13	9	9	0
Tehri Garhwal	Balganga	Padokha	18	0	18	10	10	0
Tehri Garhwal	Nainbag	Masras	18	0	18	10	10	0
Tehri Garhwal	Pawkidevi	Mindath	22	0	22	10	10	0
Tehri Garhwal	Narendra Nagar	Badera Talla	20	5	25	11	9	2
Tehri Garhwal	Dhanauli	Bait	26	0	26	11	11	0
Tehri Garhwal	Balganga	Saunla	31	0	31	11	11	0
Tehri Garhwal	Dhanauli	Dhaura Giri	21	11	32	11	7	4
Tehri Garhwal	Balganga	Kandarsyun	40	0	40	12	12	0
Tehri Garhwal	Balganga	Poni	73	0	73	12	12	0
Udham Singh Nagar	Kichha	Kichha (MB) -Teachers Colony Wa	9	9	18	10	5	5
Udham Singh Nagar	Gadarpur	Mukundpur	33	0	33	11	11	0
Udham Singh Nagar	Jaspur	Umarpur Manak	39	0	39	12	12	0
Udham Singh Nagar	Khatima	Khatima (MB) - Khetalsanda Ward	44	12	56	12	9	3
Udham Singh Nagar	Kichha	Kichha (MB) -Sonera Ward No.2	65	13	78	12	10	2
Udham Singh Nagar	GULARBOJ	Gularbhoj(NP) -Chandayan Ward	65	27	92	13	9	4
Udham Singh Nagar	Gadarpur	Dhanpur Vijapur	147	0	147	13	13	0
Uttarkashi	Rajgarhi	Gatu	15	7	22	10	7	3
Uttarkashi	Dunda	Kharwan	29	0	29	11	11	0
Uttarkashi	Bhatwari	Wayra May Lunthu	37	0	37	11	11	0
Uttarkashi	Joshiyara	Uttron	62	0	62	12	12	0
Uttarkashi	Mori	Kalap	100	0	100	13	13	0
chamoli	Narayanbagar	Banela	15	0	15	9	9	0
chamoli	Dewal	Palwara Laga Odar	26	0	26	11	11	0
chamoli	Karanprayag	Kankhul Talla	28	0	28	11	11	0
chamoli	Joshimath	Pokhani Urf Pokhari	41	0	41	12	12	0
chamoli	Joshimath	Dumak	49	0	49	12	12	0
chamoli	Karanprayag	Langasu	50	0	50	12	12	0
chamoli	Joshimath	Joshimath (MB) - Pesaari Ward N	95	0	95	13	13	0
		Total	5282	190	5472	1191	1136	55

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(eps units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Talisil Name  
c: Village Name  
d: under\_year\_Fcattle  
e: under\_year\_Fbuffalo

Abbreviations:

f: under\_year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 105  
Reserved Random Villages 0  
Total Samples

1191  
0  
1191

**BRU/SEROMON/NIVEDI/West Bengal\_36/Phase III****Stratified Random Sampling:**

Species Selected for Stratification = under\_1year\_Fbovine

Number of Villages Having 100 + (under\_1year\_Fbovine) = 7063

Animal Level Prevalence = 0.2

Cluster Level Prevalence = 0.024

Sensitivity of the test used = 0.9

Specificity of the test used = 0.9

Total No of Villages (Clusters) Selected = 138 (+3 Reserved villages)

Total No of Animals to be Sampled = 1794

DISTRICT_NAME(a)	TAHSIL_NAME(b)	VILLAGE_NAME(c)	under_1year_Fcattle(d)	under_1year_Fbuffalo(e)	under_1year_Fbovine(f)	No of units to Sample(g)	Cattle Proportion(h)	Buffalo Proportion(i)
24 Paraganas North	Baduria	Sayestanagar	135	0	135	13	13	0
24 Paraganas North	Bongaon	Bangangram	190	0	190	13	13	0
24 Paraganas North	Hasnabad	Sadigachhi (Ct)	195	0	195	13	13	0
24 Paraganas North	Habra - I	Betpuli (Ct)	224	0	224	13	13	0
24 Paraganas North	Bongaon	Ambarpur	381	0	381	13	13	0
24 Paraganas North	Sandeshkhali - li	Jelakhhali Pashchim Khanda	428	0	428	13	13	0
24 Paraganas North	Bagda	Char Mandalbhag	795	3	798	13	13	0
24 Paraganas South	Patharpratima	Gayadham	139	0	139	13	13	0
24 Paraganas South	Patharpratima	Banashyam Nagar	212	0	212	13	13	0
24 Paraganas South	Sagar	Nagendranaj	376	0	376	13	13	0
24 Paraganas South	Mathurapur - li	Purbha Jatardeul	384	0	384	13	13	0
24 Paraganas South	Jaynagar - li	Chuprijhara	412	0	412	13	13	0
24 Paraganas South	Kakdwip	Bhubannagar	522	0	522	13	13	0
24 Paraganas South	Kakdwip	Bamnagar	607	0	607	13	13	0
24 Paraganas South	Gosaba	Palpur	736	0	736	13	13	0
Alipurduar	Madarihat	Ninglali Tea Garden	416	0	416	13	13	0
Alipurduar	Falakata	Chhota Salkumar	762	0	762	13	13	0
Bankura	Onda	Jama Dhara	104	0	104	13	13	0
Bankura	Gangajalghati	Duberdanga	131	0	131	13	13	0
Bankura	Taldangra	Chakmajuriprasadpur	134	0	134	13	13	0
Bankura	Gangajalghati	Selera	183	0	183	13	13	0
Bankura	Mejhia	Bhara	186	0	186	13	13	0
Bankura *	Sonamukhi	Pulshare	230	0	230	13	13	0
Bankura	Taldangra	Majuriprasadpur	281	0	281	13	13	0
Bankura	Raipur	Matgoda	285	0	285	13	13	0
Bankura	Gangajalghati	Pirrabani	314	0	314	13	13	0
Bankura	Onda	Chingani	327	0	327	13	13	0
Bardhaman	Manteswar	Uttardih	128	0	128	13	13	0
Bardhaman	Ketugram - li	Kankurhati	155	0	155	13	13	0
Bardhaman	Memari - I	Chotkhanda	229	0	229	13	13	0
Bardhaman	Purbasthali - li	Nimdaha	306	0	306	13	13	0
Bardhaman	Galsi - li	Jujuti	324	0	324	13	13	0
Bardhaman	Mangolkote	Kaichar	698	0	698	13	13	0
Bardhaman	Kalna - li	Sashpur (P) (CT)	931	0	931	13	13	0
Bardhaman	Mangolkote	Khudrun	1321	0	1321	13	13	0
Birbhum	Nalhati	Nalhati (M) - Ward No.1	109	3	112	13	13	0
Birbhum	Rajnagar	Kanmora	146	0	146	13	13	0
Birbhum	Nanoor	Thupsara	200	0	200	13	13	0
Birbhum	Murarai - li	Bhagañ	218	0	218	13	13	0
Birbhum	Murarai - I	Dalima	236	0	236	13	13	0
Birbhum	Khoyrasol	Dakshin Hazaratur	673	0	673	13	13	0
Birbhum	Nanoor	Baliguni	853	0	853	13	13	0
Birbhum	Nanoor	Benga Chatra	854	0	854	13	13	0
Coochbehar	Dinhata - li	Teprai	127	0	127	13	13	0
Coochbehar	Dinhata - I	Brahmanic Chauki	224	0	224	13	13	0
Coochbehar	Tufanganj - I	Bisi	372	0	372	13	13	0
Coochbehar	Tufanganj - I	Dhadial	385	0	385	13	13	0
Coochbehar	Dinhata - I	Indra Narayan	523	0	523	13	13	0
Coochbehar	Dinhata - li	Bara Shakdal	1346	0	1346	13	13	0
Darjeeling	Naxalbari	Ketugabur	174	0	174	13	13	0
Darjeeling	Naxalbari	Uttar Bagdogra (Ct)	386	0	386	13	13	0
Dinajpur Dakshin	Tapar	Chak Baliram	104	0	104	13	13	0
Dinajpur Dakshin	Balurghat	Amritakhanda	134	0	134	13	13	0
Dinajpur Dakshin	BUNIADPUR	BUNIADPUR (M) - Ward No. 1	140	0	140	13	13	0
Dinajpur Dakshin	Hilli	Aptair	154	0	154	13	13	0
Dinajpur Dakshin	Kushmundi	Mahaballapur	203	0	203	13	13	0
Dinajpur Dakshin	Gangarampur	Bhoral	244	0	244	13	13	0
Dinajpur Uttar	Kaliaganj	Nasirhat	108	0	108	13	13	0
Dinajpur Uttar	Itabar	Koarpur	164	0	164	13	13	0
Dinajpur Uttar	Raiganj	Pardha	247	0	247	13	13	0

Dinajpur Uttar	Karamdighi	Dhauta	283	0	283	13	13	0
Dinajpur Uttar	Raiganj	Bogram	356	0	356	13	13	0
Dinajpur Uttar	Goalpokhar - li	Fashia Diaton	421	0	421	13	13	0
Hooghly	Goghat - li	Tilari	117	0	117	13	13	0
Hooghly	Polba - Dadpur	Ranir Bheri	156	0	156	13	13	0
Hooghly	Haripal	Ajodhya Kasipur	221	0	221	13	13	0
Hooghly*	Rishra	Rishra (M) - Ward No.9	139	95	234	13	8	5
Hooghly	Khanakul - I	Dhamla	263	0	263	13	13	0
Hooghly	Khanakul - li	Chinra	395	0	395	13	13	0
Hooghly	Khanakul - I	Bamankhana	450	0	450	13	13	0
Hooghly	Haripal	Paschim Jykrishnanpur	477	0	477	13	13	0
Howrah	Udaynarayanpur	Bedhi Chandrapur	143	0	143	13	13	0
Howrah	Uluberia - li	Brindabanpur (Ct)	181	0	181	13	13	0
Howrah	Amta - li	Kasmali	206	0	206	13	13	0
Jalpaiguri	Dhupguri	Uttar Shalbari (D)	258	0	258	13	13	0
Jalpaiguri	Jalpaiguri	Patkata	435	0	435	13	13	0
Jhargram	Gopiballavpur - li	Belaberya	110	0	110	13	13	0
Jhargram	Nayagram	Dol Gram	128	0	128	13	13	0
Jhargram	Jhargram	Jhargram (M) - Ward No.5	146	2	148	13	13	0
Jhargram	Sankraii	Dumuria Shrishbani	159	0	159	13	13	0
Jhargram	Gopiballavpur - I	Kurichhamot	159	0	159	13	13	0
Jhargram	Jhargram	Sugribansa	201	0	201	13	13	0
Jhargram	Nayagram	Kamala Pur	212	0	212	13	13	0
Jhargram	Gopiballavpur - I	Alampur Pirasimol	592	0	592	13	13	0
KALIMPONG	Kalimpong - li	Ladam Khasmahal	195	0	195	13	13	0
Maldah	Gazole	Uttar Rahimpur	105	0	105	13	13	0
Maldah	Harischandrapur - I	Panchla	171	0	171	13	13	0
Maldah	Kaliachak - lii	Par Lalpur	233	0	233	13	13	0
Maldah	Harischandrapur - I	Bangrua	245	0	245	13	13	0
Maldah	Kaliachak - lii	Golaganj	581	0	581	13	13	0
Maldah	Chanchal - I	Matiharpur	686	0	686	13	13	0
Medinipur East	Chandipur	Barbanki	102	0	102	13	13	0
Medinipur East	Contai - li	Shikhar Patra Bar	134	0	134	13	13	0
Medinipur East	Nandigram - I	Shyam Sundari Chak	142	0	142	13	13	0
Medinipur East *	Haldia	Haldia (M) - Ward No.21	194	0	194	13	13	0
Medinipur East	Potashpur - I	Amgechhe	198	0	198	13	13	0
Medinipur East	Egra - I	Kasbugola	238	0	238	13	13	0
Medinipur East	Ramnagar - li	Narkuli	269	0	269	13	13	0
Medinipur East	Moyna	Chandibeniya	324	0	324	13	13	0
Medinipur East	Khejuri - I	Thakur Nagar	384	0	384	13	13	0
Medinipur East	Egra - I	Maha Bisra	451	0	451	13	13	0
Medinipur West	Chandrakona - li	Nilganja	102	0	102	13	13	0
Medinipur West	Chandrakona - I	Bagchhari	118	0	118	13	13	0
Medinipur West	Daspur - li	Jor Keshab	128	0	128	13	13	0
Medinipur West	Ghatal	Baghanala	128	0	128	13	13	0
Medinipur West	Garbeta - li	Bathantor	148	0	148	13	13	0
Medinipur West	Keshpur	Kapastikri	156	11	167	13	12	1
Medinipur West	Dantan - li	Kedar	172	0	172	13	13	0
Medinipur West	Sabang	Banhala	195	0	195	13	13	0
Medinipur West	Keshpur	Mani Nageshwar Patna	239	0	239	13	13	0
Medinipur West	Dantan - I	Chak Ismailpur	241	0	241	13	13	0
Medinipur West	Sabang	Harnan	247	0	247	13	13	0
Medinipur West	Sabang	Shitalda	248	0	248	13	13	0
Medinipur West	Garbeta - lii	Naba Kola (Ct)	277	0	277	13	13	0
Medinipur West	Narayangarh	Kontai Jimagerya	279	0	279	13	13	0
Medinipur West	Keshiary	Keshiari	298	0	298	13	13	0
Medinipur West	Daspur - li	Chanipat	327	0	327	13	13	0
Medinipur West	Narayangarh	Dhaharpur	409	0	409	13	13	0
Murshidabad	Farakka	Dohitpur	105	0	105	13	13	0
Murshidabad	Jalangi	Tikar Bariakalkihara	157	0	157	13	13	0
Murshidabad	Beldanga - I	Jhunka	255	0	255	13	13	0
Murshidabad	Khargram	Jhilli	279	0	279	13	13	0
Murshidabad	Domkal	Kupla	321	0	321	13	13	0
Murshidabad	Farakka	Mahadeb Nagar (Ct)	196	146	342	13	7	6
Murshidabad	Burwan	Nima Bahadurpur	422	0	422	13	13	0
Nadia	Kaliganj	Sajola	134	0	134	13	13	0
Nadia	Hanskhali	Purba Khamar Simulia	195	0	195	13	13	0
Nadia	Nakashipara	Shuk Pukuria	258	0	258	13	13	0
Nadia	Ranaghat - I	Paschim Noopara	321	0	321	13	13	0
Nadia	Chapra	Dompukur	669	0	669	13	13	0
PASCHIM BARDHAMAN	Asansol	Asansol (M Corp.) - Ward No.8	156	43	199	13	10	3

PASCHIM BARDHAMAN	Jamuria	Kumustara (Ct)	470	0	470	13	13	0
Purulia	Jaipur	Heikahan	108	0	108	13	13	0
Purulia	Raghunathpur - li	Simra	134	0	134	13	13	0
Purulia	Kashipur	Jinamanipur	149	0	149	13	13	0
Purulia	Jhalda - li	Bararola	155	0	155	13	13	0
Purulia	Balarampur	Karma	168	0	168	13	13	0
Purulia	Hura	Rakshyara	207	0	207	13	13	0
Purulia	Para	Shankara (Ct)	237	0	237	13	13	0
Purulia	Para	Bagalmari	251	0	251	13	13	0
Purulia	Jhalda - li	Chitmu	515	0	515	13	13	0
		Total	41939	303	42242	1833	1818	15

\*Reserved villages to be used for sampling if any selected village in given district is not accessible, having logistic problem or any other issues

To provide the sampling scheme for estimation of total number of animals to be sampled, total number of representative villages(epi units) to be selected, random number of animals within the village to be sampled and location of villages for seromonitoring(post vaccination) of Bovine Brucellosis in 4-8 months of female calves (less than 1- year-old female calf population) in india

a: District Name  
b: Tahsil Name  
c: Village Name  
d: under\_1year\_Fcattle  
e: under\_1year\_Fbuffalo

Abbreviations:

f: under\_1year\_Fbovine  
g: Number of units to Sample  
h: Cattle Proportion  
i: Buffalo Proportion

Random Villages 138  
Reserved Random Villages 3  
Total Samples

1794  
39  
1833