सत्यमेव जयते

REVISED GUIDELINES ON GENETIC UPGRADATION THROUGH ARTIFICIAL INSEMINATION IN DISTRICTS WITH LESS THAN 50% A.I COVERAGE

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REVISED GUIDELINES ON GENETIC UPGRADATION THROUGH ARTIFICIAL INSEMINATION IN DISTRICTS WITH LESS THAN 50% A.I COVERAGE INCLUDING ASPIRATIONAL DISTRICTS

1.   BACKGROUND:

1.1   "Rashtriya Gokul Mission" has been launched in Dec. 2014 with the aim of enhancing milk production and productivity of bovine population in the country along with focus on Conservation and Development of Indigenous breeds.

1.2   During 2018-19, Krishi Kalyan Abhiyan (KKA) was implemented in 112 Aspirational districts where the average Artificial Insemination (AI) coverage was about 15%. Under KKA, 225 villages per district were targeted to be covered at the rate of 100 animals per village. A total of 9.1 Lakh A.I were carried out in the Aspirational districts during which the average AI coverage of the covered villages got more than doubled to 32%. Above 3 lakh high yielding cows and buffaloes are expected to get added to the milch herd in 2019, which in turn will enhance the farmers' income.

1.3   Encouraged by the response of Krishi Kalyan Abhiyan, it has been proposed to continue the campaign mode genetic upgradation program through AI in districts with less than 50% AI coverage including Aspirational districts, covering all breeds of bovines.

2.   RATIONALE:

2.1   A.I is one of the key strategies to increase the productivity of bovines by upgrading their genetic potential. At present, the average A.I coverage of the country is only 30%. Rest of the 70% are either left unbred or bred with scrub bulls of unknown genetic merit. Low AI coverage indicates the poor implementation of breeding programme.

2.2   Hence it has been decided to implement a campaign mode A.I programme in districts with less than 50% AI coverage which includes 113 Aspirational districts. The rationale behind choosing districts below 50% A.I coverage is that the districts performing above 50% coverage are expected to reach the targeted 70% coverage in next five years. However districts carrying out less than 50% A.I coverage are not expected to reach the targeted 70% A.I coverage within the same period. The advantage of campaign mode program is that the work that is generally done in an year can be carried out in a

few months and it spreads awareness about the programme even in those villages which are not covered by the campaign presently, raising demand for AI in general.

The programme is implemented with the following objectives.

a)   Providing doorstep reliable AI delivery system in districts with less than 50% A.I Coverage.
b)   Birth of genetically superior male and females bovine breeds
c)   Increase in Milk Production
d)   Adoption of AI technology by large number of Farmers.
e)   Increase in Farmers' income

3. AREA OF OPERATION AND DURATION OF THE PROJECT:

The Programme will be implemented in 600 identified districts having less than 50% A.I coverage from 15th September 2019 to 15th March 2020 over a period of 6 months covering around 120 lakh breedable female bovine population, **covering 300 villages instead of 100 villages as per the original guidelines. However the total target per district of 20000 animals remains the same in order to limit the financial expenditure to previous sanction.**

In case of union territories of Jammu and Kashmir and Ladakh, the programme is extended to all villages and to all districts of the union territories.

In case of North Eastern States, it has been decided to allow all the NER states to extend the AI programme to all the eligible breedable bovines of all the districts and all villages instead of a cap of 20% enhancement in AI every year as mentioned in the previously sanctioned A.I programme.

Every selected village shall be allocated separate A.I worker/ MAITRI so that 3-4 A.I/ per A.I worker/day is done and every district achieves 900-1200 A.I every day.

The selection of districts is based on the A.I Coverage data made available by the States during 2017-18. All breeds of cattle and buffaloes will be covered under this programme. List of Districts with less than 50% AI coverage including 113 aspirational districts are given at Annexure-I. All the activities of the project will be completed over a period of 6 months. Monitoring of the project and follow-up of all the animals covered under the programme shall be continued till calves are born.

4.   SELECTION OF VILLAGES:

4.1.   The Villages shall be selected by the District Magistrate/Collector of the district in consultation with the District Veterinary Officer based on the criteria of breedable bovine population available in the concerned villages. (a minimum of 500 breedable bovines per village should be targeted so that about 35% of the bovines which will come in heat during the 6 months of campaign are available for A.I). Villages should be selected in such a way that they are spread over all the blocks of the district. If sufficient numbers of villages with 500 animals are not available, only then, the option of choosing adjacent villages be exercised. The decision of the District Collector with regard to selection of villages will be final. **The list of selected villages approved by District Collector is to be uploaded on NADRS platform, which will have a limit of 300 villages/ district (except Union Territories of Jammu & Kashmir, Ladakh and North Eastern states where all villages are covered)**

. The list of selected villages should be intimated to this Department on or before 31st December 2019 by email to helpdesk-nadrs@gov.in and b.rajasree@nic.in in the prescribed format.

.2   In case of Aspirational districts, new set of villages should be selected and villages already covered under the previous 3 phases of Krishi Kalyan Abhiyan should not be selected under this programme. However, if sufficient villages are not available in some Aspirational districts, then potential villages covered earlier may also be explored.

5.   FUNDING PATTERN:

The activity will be covered under the scheme Rashtriya Gokul Mission under the component of development and conservation of indigenous breeds as per the guidelines of the scheme.The sub-scheme will be implemented as per the funding pattern approved under RGM on 100 % grant in aid basis.

6. IMPLEMENTING AGENCIES:

6.1   The programme will be implemented by State Implementing Agencies (SIAs)/ State Livestock Development Boards. In case where milk federations are major players in implementing breeding programmes/ having substantial AI infrastructure, they may also be roped in the implementation of the programme as implementing agency as decided by

the State Government. Funds will be released directly to the State Implementing Agency (SIA). Role of implementing agency is depicted in the following table.

State Implementing Agencies (SIA's) -	State Livestock Development Boards/ Milk Federations
End Implementing Agencies (EIA's) -	• State Livestock Development Boards • State Animal Husbandry Departments, • State Milk Federations • Reputed NGOs as selected by SIA's.
Participating Implementing Agencies (PIA's)-	Other agencies having a role in Bovine Development

7.   ACTION PLAN: (15th September 2019 to 15th March 2020):

7.1   During the period, targeted number of bovines of all breeds of cattle and buffaloes will be covered in each village as detailed in para 5 through AI.

7.2   Participating farmers' low producing **Indigenous cows** should be upgraded with the semen of High yielding Indigenous Breed bull (selective breeding) with the Minimum Standards (MS) of above 3000 Kgs.

7.3   **Non-descript cows** either may be upgraded with the semen of high yielding Indigenous breed (grading up) meeting above mentioned defined minimum standards or using semen of exotic breeds (Cross breeding).

7.4   **Crossbred cows** may be upgraded with the use of semen of high yielding crossbred bulls (inter se mating) limiting exotic inherence to 50% or upgraded with the semen of high yielding exotic bulls limiting exotic inheritance up to 75%, depending upon the State breeding policy. Further, indiscriminate cross breeding shall be avoided by adhering to the notified State breeding policy.

7.5 **Non descript buffaloes** should be upgraded with the semen of high yielding buffalo bulls like Murrah/Nili Ravi/ Mehsani/Jaffarabadi as per the State breeding policy and

descript buffaloes may be upgraded through selective breeding using HGM bulls of the particular breed.

7.6   In villages where co-operative societies are available, A.I shall preferably be done through Dairy Cooperative Societies (DCS)/ through cluster A.I centres of dairy co-operatives.

7.7   Though 3 A.I's are allowed per animal, in case of animals conceived with a single/double A.I, the rest of the semen doses shall be used for additional animals (Cattle and Buffalo).

8.   BREEDING INPUTS:

8.1   The breeding inputs for the programme shall be procured by the concerned State Implementing Agency as per the Standards and specifications in the form of Minimum Standard Protocols (MSPs)/ Standard Operating Procedure (SOPs) formulated by Government of India.

8.2   Standards For Selecting Semen: High Yielding Indigenous breed (HYIB) semen to be used should meet the standards and specifications prescribed in MSP for semen production and dams lactation yield should not be below 3000 Kgs/lactation. For semen of HF and Jersey, MSP shall be of 10,000 Kgs for HF and 7000 Kgs for Jersey respectively. For Buffaloes, in case of non- descript buffaloes, semen of Murrah/ Nili-Ravi with MSP of 3000 Kgs and above may be used, as it is easily available. For descript buffaloes, minimum MSP as decided by Government of India should be used. All purchases of semen should be from the 'A' and 'B' graded Semen Stations accredited by Central Monitoring Unit (CMU) only.

8.3   **SEXED SEMEN** - In States where establishment of sexed semen production has been sanctioned by GoI, the States may substitute sexed semen for normal semen and add Rs.25/- as GoI contribution on semen cost apart from the admissible cost under sanctioned programme.

8.4 **SIRE DIRECTORY OR DETAILS OF BULLS WHOSE SEMEN IS USED FOR A.I –** Concerned SIA/LDB/Service provider shall make relevant available copies of sire directory in regional languages to the A.I technician giving details of Bull identification number, Dam's lactation yield/ Breeding value, fat % including the photograph of the used bull. The A.I technician shall make this information available to the farmer and after

performing A.I, the empty straw shall also be made available to the farmer, who can check it through Sire Directory available on e-pashuhaat.

9. **TRAINING :** Trainers' trainings on data uploading on INAPH data base have already been completed in the States last year during Krishi Kalyan Abhiyaan. Training of all the A.I technicians shall be organized with the help of these TOT's again this year in every district, where District Animal Husbandry Officer (DAHO)/ District Veterinary Officer (DVO) should also update them on technical aspects of A.I.

9.1   A.I technicians village wise shall be ear marked by the District Coordination team and their name and mobile number shall be made public for use of farmers.

9.2   The AI technician shall perform AI following SOPs formulated by Government of India. Copy of Standard Operating Procedure (SOP) for A.I shall be made available to A.I technicians.

10. **TAGGING: All the animals covered under the programme shall be identified using UID and their data shall be uploaded on INAPH data base.** All inseminated animals shall be given Animal health Card (Nakul Swasthya Patra) . After AI, the animal shall be followed up and all the events shall be recorded on the data base till the birth of the calf.

11. **DATA UPLOADING ON INAPH:** The A.I technicians who have been given tablets under Pashu Sanjivani, (currently being used for 20^{Th} Livestock Census) may use the tablet directly or use their mobile phone for uploading data on INAPH data base. States should try to make all such tablets available to regular A.I technicians.

Procedure for uploading of data:

1. The technician has to open the INAPH database on NDDB web site.
2. He has to enter his user ID and password (provided by NDDB to SIA/State AHD).
3. He has to fill up the registration form on Animal Details. He has to fill all the fields compulsorily (Step wise format attached at Annexure III). Wherever boxes are provided, he has to enter the numbers or √ marks or option to be chosen from dropdown list)
4. After filling up animal registration, he has to fill up details of the owner of the animal.

5. Once registration of animal and owner is over, he has to fill up details on A.I under A.I transaction.

6. After 3 months of insemination, he has to fill up the result on pregnancy diagnosis whether the animal has become pregnant or not. (√)

7. After an approximate period of 10 months, he has to enter the data on details of calving.

11.1   If tablets are not available, data entry sheets (Copy of data sheet for uploading data on INAPH is enclosed in guidelines at Annexure III) have to be printed and supplied to the A.I technicians by the concerned SIA's/SLDB's. AI technicians shall record information on the data sheet and shall either themselves upload the data through their mobiles or shall submit to the officer designated by District authorities for uploading of data on INAPH data base.

11.2   Data uploaded by AI technicians / District/Block level with desktop facility on INAPH data base will be used for online monitoring of the project activity.

12.   DATA REPORTING OF PROGRESS ON NIC: For daily reporting of village wise and district wise progress on the No. of AI done and Farmers benefitted, data entry facility will also be made available on a web portal designed by NIC to the District Animal Husbandry officer/District Veterinary Officer. This is apart from INAPH and shall be done by DAHO so as to provide public scrutiny/ assessment of the programme.

12.1   The concerned DAHO shall ensure proper uploading of data on NADRS application at **http://nadrsapps.gov.in** where the option will be provided for uploading A.I progress. NIC will share the user ID and password for each District veterinary officer via e mail.

12.2   All District Veterinary Officers are allowed to hire one Data Entry Operator (DEO) on short term basis for uploading AI data on the portal. A consolidated remuneration @ Rs.10000/-(Rupees Ten Thousand only) per month for a period of 8 months is earmarked for data entry operator at district level. Besides uploading the progress on the portal, DEO shall check up all the INAPH entries and ensure all entries have been done as per format. In Aspirational districts, Niti Aayog has given 2 young professionals per district for monitoring Aspirational districts programme Who can be used to provide supervision.

13 MEDIA AND PUBLICITY:

(i) **At village level:** Contingency grant @ Rs.1000 per village will be made available for two wall writings, printing banners, leaflets, pamphlets etc. Banners should be displayed in prominent places and at the sites where A.I is done. Village wise details of AI technicians shall be shared by State and same detail will be displayed in each village through wall paintings, posters etc. Same details should be available as in para 9.1.

(ii) **At district level:** A fund of Rs.50,000/- per district will be made available for publicity, storage and transportation of semen doses, AI consumables and monitoring. Leaflets in regional language should be prepared by the concerned DVO on the following and to be distributed compulsorily to all the farmers for creating awareness.

- Benefits of A.I over natural service
- Detection of heat symptoms
- Regarding the information printed on the semen straw -bull No., Breed, MSP etc
- Advantages of high yielding semen for enhancing the productivity.
- Critical level of Liquid Nitrogen, expected date of pregnancy verification
- Creating awareness among farmers to ask for the empty straw to the A.I technician after A.I is done to know about the details of semen used for A.I and about the bulls.

(iii) **Public Participation:** Member of Parliament along with Member of Legislative assembly shall be invited for the inauguration programme. The programme shall be organised to create wide publicity in a simple manner.

(iv) **At State level:** For creating awareness about the programme at the State level, Rs.1.00 lakh per district for the State will be made available for printing of A.I formats, preparing and broadcasting of Radio jingles on the importance of A.I, organising awareness camps and Publicity through Television.

14. MONITORING OF THE PROGRAMME :

(i) **District level: At the district level, scheme will be monitored by the District Monitoring committee headed by Collector/District Magistrate , Member secretary – DAHO and the Implementing agency, which will hold weekly review meetings ascertaining the progress of the programme, with special reference to AI technicians in the selected villages and the media campaign launched in local**

language to make the farmers aware of the programme. Every A.I technician should be given a target to do a minimum average of 3-4 A.I /every day and accordingly the progress should be reviewed. It is requested that the local Member of Parliament and Member of Legislative assembly should be invited in District level review meeting once a month to appreciate the progress of the scheme and spread the good word about its usefulness to farmers.

(ii)   State level: State Animal Husbandry Department shall constitute a State Monitoring Committee headed by the Principal Secretary of the department and its members should be Stake holders involved in A.I. In each State, a nodal officer shall be nominated by the State for coordination with the centre. The State Monitoring Committee will meet weekly during the campaign.

The state government may change the administrative arrangement of review but will ensure that the weekly review takes place at a level above District Animal Husbandry Officer / District Veterinary Officer and the minutes are shared with the District Collector and the Secretary In charge of Animal husbandry Department in the state.

(iii)   **Central Monitoring Committee:** Technical Monitoring Committee will be constituted in the Department of Animal Husbandry and Dairying (DAHD) and regular meetings of TMC will be held on monitoring of the programme. DAHD shall depute its officers for monitoring of the programme at State level. In this regard, 2 Veterinarians and 2 Management Consultants will be hired for monitoring the AI progress on short term contract basis for one year @ Rs.50,000/- per month. Three data entry operators will be hired on consolidated basis of Rs. 12000/-month on short time basis   for one year for compiling of data.

15.   Call centre at DAHD will be created under this programme for one year.

16. INCENTIVES: All Incentives shall be transferred through bank transaction by the State to AI technicians as per the guidelines issued by GoI.

(i)   **Incentive for Tagging:** An incentive of Rs.2.50 per animal will be given for tagging under RGM/ NADCP.

(ii)   **Incentive for A.I and Calf born -** Incentive will be made available to the technician @ Rs 50/ per AI and Rs. 100/- per calf born. All incentives for A.I technicians to be

disbursed strictly based on the data uploaded on INAPH and verification of the data by the concerned District Animal Husbandry Officer (DAHO).

(iii) **For the Union territories of Jammu & Kashmir and Ladakh, the incentive for A.I done by MAITRI/ Private A.I workers (Not getting salary by Government or Co-operatives) has been raised to Rs. 100/- per A.I from Rs. 50/- per A.I. The incentive to Government /Cooperatives workers remains the same i.e. @ Rs. 50 per A.I.**

(iv) **In case of NER States, the incentive for private A.I technicians (Not getting salary by Government or Co-operatives) has been increased to Rs.100/- per A.I. from Rs.75/- per A.I and the cost of procurement of semen doses including consumables has been reduced from Rs.100/- per dose to Rs.25/- per dose of semen including consumables. The incentive to Government /Cooperatives workers remains the same i.e. @ Rs. 75 per A.I. The savings from the first activity (reduction in cost of semen) will be utilised for funding the enhancement of incentives for A.I. and there will not be any cost enhancement.**

17. FINANCIAL IMPLICATION:

For implementing the genetic upgradation programme in Bovines in 600 districts including aspirational districts with less than 50 % A.I coverage in from (15th September 2019 to 15th March 2020), the expenditure proposed is as below :

S. No.	Item	Total expenditure (Rs. in Crore)
1	No. of Districts to be covered	600
2	No. of villages to be covered per district	100
3	No. of animals to be covered per village	200
4	Total no. of animals to be covered / district	20000
5	No. of AI to be conducted per village (up to 3 A.I per animal)	600
6	Total No. of AIs to be performed per district	60000
7	No. of semen doses required (10% extra over number of AI)	66000
8	Cost of Semen doses including consumables, transportation and storage @ Rs. 25/per dose (in Rs)	0.165
9	Incentive to AI technicians @ Rs 50 per AI including data uploading on INAPH	0.3
10	Incentive to AI technicians after birth of each calf @ Rs 100 per calf including data uploading on INAPH	0.2

11	One data entry operator on consolidated salary of Rs. 10000/-month on short time basis (8 months) for uploading AI data	0.008
12	Contingency grant @ Rs 1000 per village for wall writing, Banners ,leaflets, pamphlets and monitoring of progress	0.01
13	Contingency grant @ Rs. 50,000/- per district for publicity, storage and transportation of semen doses & AI consumables	0.005
14	**Total per district**	**0.688**
15	**Total for 600 districts**	**412.8**
	At State level	
16	Awareness programme at State level @ Rs.1.00 Lakh /District - Printing of A.I formats , Publicity through TV , Preparing and broadcasting of Radio jingles on A.I and Organising Awareness camps	6.00
17	Total	418.8
	DAHD Headquarters Expenditure	4.805
23	Total fund requirement for 28 states *	423.61
24	**Fund requirement by States for 496 districts (excl. NER)**	**351.02**
25	**Unspent balance available under KKA with the States**	**52.32**
26	**Net fund requirement by States**	**298.70**

* Fund has already been released to NER States under NER A.I Program)

Detailed State wise expenditure to be incurred is attached at Annexure II .

18. MEASURES TO ENSURE QUALITY OF GOODS AND SERVICES

Standards and specifications in the form of MSP's/SOP's formulated by Government of India shall be implemented in letter and spirit.

19. IMPACT ANALYSIS

Third party evaluation will be under taken in districts covered under sub-scheme, the term of references shall include a) constraints faced during implementation; b) success rate of AI; c) number of pregnancies reported; and d) different elements including UID and uploading data on Information Network for Animal Productivity & Health (INAPH) data base.

Third party evaluation will be conducted after one year of the programme in the districts covered under the sub scheme. The term of references shall include among others,

a) Number of female calves born

b) Performance of A.I technicians

c) Mortality rate among calves

Impact analysis will be undertaken centrally as per TOR approved by this Department.

20. EXPECTED PROJECT OUTCOME

- Overall A.I coverage in the selected districts will be extended from the present level of 18% to 45% of the breedable bovine females.

- Around 3.60 Crore number of AI's would result into birth of 1.2 Cr superior male and female calves.

- Due to this campaign mode approach, 0.6 Crore superior female calves will be produced which will yield 21.90 MMT of milk /annum after 3 years.

- Cows and buffaloes worth Rs.24000 Crores (Rs.40,000 per adult cow) will be added to the farmers household.

- Through sale of milk, dairy farmers will earn an additional income of Rs. 65700 crores.

- There will be improvement in the indigenous breed population by the addition of more milch animals to the dairy herd of the country.

Annexure-I: LIST OF DISTRICTS WIITH LESS THAN 50% AI COVERAGE INCLUDING ASPIRATIONAL DISTRICTS

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
1	1	Andhra pradesh	Guntur	588177	411724	479041	39
2	2	Andhra pradesh	West godavari	409872	286910	307140	36
3	3	Andhra pradesh	Srikakulam	372306	260614	264904	34
4	4	Andhra pradesh	Prakasam	540228	378160	351503	31
5	5	Andhra pradesh	East godavari	497193	348035	313844	30
6	6	Andhra pradesh	Kurnool	359951	251966	223887	30
7	7	Andhra pradesh	Kadapa	314415	220091	183294	28
8	8	Andhra pradesh	Ananthapur	474272	331990	264635	27
9	9	Andhra pradesh	Nellore	382499	267749	207361	26
10	1	Bihar	Sheohar	47859	33501	43822	44
11	2	Bihar	Begusarai	292145	204502	234664	38
12	3	Bihar	Samastipur	461026	322718	332511	34
13	4	Bihar	Gopalganj	182842	127989	127947	33
14	5	Bihar	Muzaffarpur	391342	273939	237665	29
15	6	Bihar	Khagaria	218892	153224	123157	27
16	7	Bihar	Vaishali	266940	186858	147030	26
17	8	Bihar	Bhojpur	274670	192269	147410	26
18	9	Bihar	Lakhisarai	113397	79378	50214	21
19	10	Bihar	Buxar	237547	166283	105098	21
20	11	Bihar	Munger	125893	88125	55122	21
21	12	Bihar	Sitamarhi	183194	128236	61139	16
22	13	Bihar	Patna	406885	284820	133070	16
23	14	Bihar	Darbhanga	297440	208208	86857	14
24	15	Bihar	Jehanabad	119850	83895	32863	13
25	16	Bihar	Arwal	80988	56692	21932	13
26	17	Bihar	Saran	343192	240234	90049	12
27	18	Bihar	Siwan	274480	192136	69696	12
28	19	Bihar	Nalanda	314434	220104	74007	11
29	20	Bihar	Motihari	405596	283917	83122	10
30	21	Bihar	Kaimur (bhabua)	282040	197428	52155	9
31	22	Bihar	Sheikhpura	64059	44841	11828	9
32	23	Bihar	Pashchim champaran	326192	228334	60052	9
33	24	Bihar	Rohtas	507583	355308	91610	9
34	25	Bihar	Banka	344980	241486	57540	8
35	26	Bihar	Gaya	461525	323068	73286	8
36	27	Bihar	Bhagalpur	441734	309214	68165	7

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
37	28	Bihar	Saharsa	258060	180642	34041	6
38	29	Bihar	Madhubani	447370	313159	58914	6
39	30	Bihar	Nawada	210287	147201	26141	6
40	31	Bihar	Aurangabad	335750	235025	36052	5
41	32	Bihar	Madhepura	307354	215148	27408	4
42	33	Bihar	Purnea	347862	243503	27532	4
43	34	Bihar	Katihar	371866	260306	26989	3
44	35	Bihar	Araria	479992	335994	23307	2
45	36	Bihar	Supaul	440814	308570	18159	2
46	37	Bihar	Kishanganj	217365	152156	8884	2
47	38	Bihar	Jamui	235489	164842	9431	2
48	1	Chhattisgarh	Raigarh	500206	350144	90131	9
49	2	Chhattisgarh	Mahasamund	403995	282797	40027	5
50	3	Chhattisgarh	Bilaspur	663498	464449	61961	4
51	4	Chhattisgarh	Raipur	465869	326108	42513	4
52	5	Chhattisgarh	Dhamtari	339687	237781	29822	4
53	6	Chhattisgarh	Balod	402728	281910	34734	4
54	7	Chhattisgarh	Mungeli	293764	205635	24259	4
55	8	Chhattisgarh	Surguja	384366	269056	31477	4
56	9	Chhattisgarh	Janjgir champa	629755	440829	50068	4
57	10	Chhattisgarh	Korba	409449	286614	31959	4
58	11	Chhattisgarh	Surajpur	391463	274024	26183	3
59	12	Chhattisgarh	Gariyaband	319596	223717	18590	3
60	13	Chhattisgarh	Durg	406142	284299	22963	3
61	14	Chhattisgarh	Balodabazar	621015	434711	33224	3
62	15	Chhattisgarh	Kanker	401646	281152	20770	2
63	16	Chhattisgarh	Korea	352760	246932	17835	2
64	17	Chhattisgarh	Jashpur	474135	331895	23262	2
65	18	Chhattisgarh	Bemetra	411358	287951	18691	2
66	19	Chhattisgarh	Rajnandgaon	787026	550918	34271	2
67	20	Chhattisgarh	Bastar	366121	256285	15866	2
68	21	Chhattisgarh	Kabirdham	395646	276952	14952	2
69	22	Chhattisgarh	Balrampur	430661	301463	15535	2
70	23	Chhattisgarh	Kondagaon	428437	299906	8365	1
71	24	Chhattisgarh	Dantewada	161192	112834	1738	1
72	25	Chhattisgarh	Bijapur	279846	195892	2910	0
73	26	Chhattisgarh	Narayanpur	169541	118679	1518	0
74	27	Chhattisgarh	Sukma	309751	216826	1279	0
75	1	Goa	North Goa	22975	160825	21885	28
76	2	Goa	South Goa	14034	98238	10389	9
77	1	Gujarat	Patan	272403	190682	275309	48
78	2	Gujarat	Vadodara	214032	149822	213561	48
79	3	Gujarat	Panchmahal	338168	236718	286698	40

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
80	4	Gujarat	Bharuch	122570	85799	97584	38
81	5	Gujarat	Narmada	84838	59387	63537	36
82	6	Gujarat	Surat	339224	237457	239357	34
83	7	Gujarat	Junagadh	227800	159460	142583	30
84	8	Gujarat	Chhotaudepur	201556	141089	107468	25
85	9	Gujarat	Dahod	345123	241586	147434	20
86	10	Gujarat	Ahmedabad	319991	223994	132340	20
87	11	Gujarat	Rajkot	357964	250575	145849	19
88	12	Gujarat	Bhavnagar	329617	230732	124007	18
89	13	Gujarat	Botad	118595	83017	44414	18
90	14	Gujarat	Porbandar	116917	81842	40415	16
91	15	Gujarat	Gir somnath	237194	166036	75793	15
92	16	Gujarat	Amreli	264742	185319	83772	15
93	17	Gujarat	Jamnagar	165423	115796	38167	11
94	18	Gujarat	Morbi	193045	135132	41847	10
95	19	Gujarat	Surendranagar	372697	260888	71738	9
96	20	Gujarat	Devbhumi dwarka	155635	108945	27265	8
97	21	Gujarat	Kachchh	518924	363247	38972	4
98	1	Haryana	Sonepat	208253	145777	201400	46
99	2	Haryana	Palwal	169039	118327	162200	46
100	3	Haryana	Bhiwani	286612	200628	237400	39
101	4	Haryana	Panchkula	47852	33496	38200	38
102	5	Haryana	Charki Dadri	68590	48013	50400	35
103	1	Himachal pradesh	Kangra	237401	166181	216977	44
104	2	Himachal pradesh	Hamirpur	76369	53458	67711	42
105	3	Himachal pradesh	Bilaspur	71084	49759	61359	41
106	4	Himachal pradesh	Mandi	238684	167079	194001	39
107	5	Himachal pradesh	Solan	113363	79354	85030	36
108	6	Himachal pradesh	Kullu	89836	62885	58815	31
109	7	Himachal pradesh	Shimla	149546	104682	83707	27
110	8	Himachal pradesh	Sirmaur	138841	97189	69992	24
111	9	Himachal pradesh	Kinnaur	12476	8733	5773	22
112	10	Himachal pradesh	L & spiti	7486	5240	3016	19
113	11	Himachal pradesh	Chamba	139409	97586	49879	17
114	1	Jammu & Kashmir	Kulgam	71173	49821	73661	49
115	2	Jammu & Kashmir	Samba	44604	31223	43929	47
116	3	Jammu &	Shupiyan	47709	33396	41375	41

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I % coverage
117	4	Jammu & Kashmir	Anantnag	123343	86340	105136	41
118	5	Jammu & Kashmir	Jammu	193628	135540	145740	36
119	6	Jammu & Kashmir	Baramula	102742	71919	75658	35
120	7	Jammu & Kashmir	Bandipore	50876	35613	32615	31
121	8	Jammu & Kashmir	Kathua	115414	80790	53219	22
122	9	Jammu & Kashmir	Kupwara	113390	79373	45922	19
123	10	Jammu & Kashmir	Doda	70927	49649	17339	12
124	11	Jammu & Kashmir	Udhampur	122810	85967	25570	10
125	12	Jammu & Kashmir	Poonch	90000	63000	16194	9
126	13	Jammu & Kashmir	Rajouri	158504	110953	26804	8
127	14	Jammu & Kashmir	Ramban	72664	50865	12025	8
128	15	Jammu & Kashmir	Kishtwar	56819	39773	5095	4
129	16	Jammu & Kashmir	Kargil	28917	20242	1782	3
130	17	Jammu & Kashmir	Reasi	151853	106297	8979	3
131	18	Jammu & Kashmir	Leh(ladakh)	29585	20710	409	1
132	1	Jharkhand	Lohardaga	38335	26835	24853	31
133	2	Jharkhand	Ramgarh	41912	29338	23622	27
134	3	Jharkhand	Koderma	58617	41032	27953	23
135	4	Jharkhand	Ranchi	144841	101389	68776	23
136	5	Jharkhand	Dhanbad	118429	82900	43793	18
137	6	Jharkhand	Hazaribagh	162707	113895	53430	16
138	7	Jharkhand	Godda	166982	116887	54627	16
139	8	Jharkhand	Gharhwa	151985	106390	47926	15
140	9	Jharkhand	Bokaro	113645	79552	33906	14
141	10	Jharkhand	E. Singhbhoom	106285	74400	31480	14
142	11	Jharkhand	Deoghar	184103	128872	54440	14
143	12	Jharkhand	Saraikela	59093	41365	17080	14
144	13	Jharkhand	Palamu	226873	158811	59110	12
145	14	Jharkhand	Giridih	251108	175776	53579	10
146	15	Jharkhand	Latehar	85240	59668	17333	10
147	16	Jharkhand	Sahebganj	126121	88285	25205	10
148	17	Jharkhand	Dumka	180090	126063	34437	9
149	18	Jharkhand	Chatara	163816	114671	28149	8
150	19	Jharkhand	Jamtara	95071	66550	14489	7
151	20	Jharkhand	Gumla	136379	95465	16204	6

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
152	21	Jharkhand	Pakur	133088	93162	11713	4
153	22	Jharkhand	Khunti	119327	83529	10253	4
154	23	Jharkhand	W singhbhum	106334	74434	8458	4
155	24	Jharkhand	Simdega	89965	62976	4972	3
156	1	Karnataka	Davanagere	259000	181300	268030	49
157	2	Karnataka	Dharwad	123000	86100	112499	44
158	3	Karnataka	Gadag	94000	65800	85770	43
159	4	Karnataka	Bagalakote	278000	194600	201591	35
160	5	Karnataka	Chitradurga	206000	144200	144693	33
161	6	Karnataka	Chikkamagaluru	216000	151200	143731	32
162	7	Karnataka	Shivamogga	361000	252700	215686	28
163	8	Karnataka	Belgaum	846000	592200	481438	27
164	9	Karnataka	Koppal	160000	112000	85104	25
165	10	Karnataka	Bellary	231000	161700	111073	23
166	11	Karnataka	Uttarkannada	204000	142800	95703	22
167	12	Karnataka	Bidar	176000	123200	81509	22
168	13	Karnataka	Vijapura	199000	139300	86412	21
169	14	Karnataka	Kodagu	51000	35700	20490	19
170	15	Karnataka	Raichur	238000	166600	64327	13
171	16	Karnataka	Kalburgi	235000	164500	56162	11
172	17	Karnataka	Yadgiri	180000	126000	20385	5
173	1	Madya pradesh	Sehore	176635	123645	132010	36
174	2	Madya pradesh	Indore	181633	127143	129277	34
175	3	Madya pradesh	Burhanpur	58256	40779	35634	29
176	4	Madya pradesh	Betul	196183	137328	108491	26
177	5	Madya pradesh	Bhind	160406	112284	87633	26
178	6	Madya pradesh	Bhopal	103787	72651	55251	25
179	7	Madya pradesh	Mandsaur	253382	177367	122171	23
180	8	Madya pradesh	Mandla	114457	80120	50654	21
181	9	Madya pradesh	Anooppur	99730	69811	42269	20
182	10	Madya pradesh	Ujjain	286166	200316	115594	19
183	11	Madya pradesh	Ratlam	216070	151249	87068	19
184	12	Madya pradesh	Dewas	258277	180794	102191	19
185	13	Madya pradesh	Seoni	197674	138372	77687	19
186	14	Madya pradesh	Datiya	124050	86835	46216	18
187	15	Madya pradesh	Sidhi	174057	121840	63412	17

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
188	16	Madya pradesh	Shajapur	180747	126523	60599	16
189	17	Madya pradesh	Chhindwara	263687	184581	87982	16
190	18	Madya pradesh	Alirajpur	94065	65846	29666	15
191	19	Madya pradesh	Harda	88168	61718	27265	15
192	20	Madya pradesh	Panna	224672	157270	69444	15
193	21	Madya pradesh	Khandwa	166960	116872	51598	15
194	22	Madya pradesh	Jhabua	161195	112837	48870	14
195	23	Madya pradesh	Dhar	327189	229032	96885	14
196	24	Madya pradesh	Hosangabad	199439	139607	58075	14
197	25	Madya pradesh	Balaghat	198362	138853	56587	14
198	26	Madya pradesh	Narsinghpur	193332	135332	54708	13
199	27	Madya pradesh	Neemuch	180363	126254	50671	13
200	28	Madya pradesh	Tikamgarh	246599	172619	68909	13
201	29	Madya pradesh	Jabalpur	198187	138731	55128	13
202	30	Madya pradesh	Shahdol	153657	107560	39556	12
203	31	Madya pradesh	Dindori	97642	68349	24756	12
204	32	Madya pradesh	Murena	387760	271432	94450	12
205	33	Madya pradesh	Khargone	274999	192499	66473	12
206	34	Madya pradesh	Raisen	251221	175855	58396	11
207	35	Madya pradesh	Badwani	173055	121139	36616	10
208	36	Madya pradesh	Agar malva	110687	77481	23143	10
209	37	Madya pradesh	Guna	255217	178652	51715	10
210	38	Madya pradesh	Damoh	281021	196715	55516	9
211	39	Madya pradesh	Chhatarpur	243443	170410	47467	9
212	40	Madya pradesh	Rewa	414753	290327	78031	9
213	41	Madya pradesh	Singroli	184823	129376	33055	9
214	42	Madya pradesh	Umaria	108565	75996	19055	8
215	43	Madya pradesh	Katani	159412	111588	27490	8
216	44	Madya pradesh	Vidisha	266776	186743	45650	8

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
217	45	Madya pradesh	Satna	433171	303220	71910	8
218	46	Madya pradesh	Sagar	475590	332913	77184	8
219	47	Madya pradesh	Gwalior	236532	165572	36135	7
220	48	Madya pradesh	Ashoknagar	183452	128416	27458	7
221	49	Madya pradesh	Shivpuri	386910	270837	54726	7
222	50	Madya pradesh	Rajgarh	403387	282371	46646	6
223	51	Madya pradesh	Sheopurkala	184665	129266	16004	4
224	1	Maharashtra	Pune	562628	393840	573055	49
225	2	Maharashtra	Satara	397169	278018	395598	47
226	3	Maharashtra	Ahmednagar	853866	597706	830623	46
227	4	Maharashtra	Sangli	480934	336654	290605	29
228	5	Maharashtra	Solapur	622034	435424	358700	27
229	6	Maharashtra	Bhandara	118138	82697	67886	27
230	7	Maharashtra	Osmanabad	224863	157404	126741	27
231	8	Maharashtra	Nashik	491904	344333	255589	25
232	9	Maharashtra	Latur	242065	169446	116817	23
233	10	Maharashtra	Jalgaon	306369	214458	146272	23
234	11	Maharashtra	Aurangabad	240439	168307	110172	22
235	12	Maharashtra	Nagpur	197114	137980	69491	17
236	13	Maharashtra	Wardha	122194	85536	42169	16
237	14	Maharashtra	Hingoli	119689	83782	40906	16
238	15	Maharashtra	Akola	117176	82023	39004	16
239	16	Maharashtra	Sindhudurg	65860	46102	20471	15
240	17	Maharashtra	Beed	310092	217064	94688	15
241	18	Maharashtra	Parbhani	151905	106334	45159	14
242	19	Maharashtra	Jalna	148063	103644	43612	14
243	20	Maharashtra	Gondia	122292	85604	35373	14
244	21	Maharashtra	Amravati	244940	171458	69234	13
245	22	Maharashtra	Buldhana	214130	149891	60408	13
246	23	Maharashtra	Dhule	160487	112341	44888	13
247	24	Maharashtra	Ratnagiri	100858	70601	25843	12
248	25	Maharashtra	Raigad	98819	69173	23267	11
249	26	Maharashtra	Nanded	322058	225441	70376	10
250	27	Maharashtra	Chandrapur	159821	111875	29423	9
251	28	Maharashtra	Yeotmal	279331	195532	51422	9
252	29	Maharashtra	Thane	101764	71235	17713	8
253	30	Maharashtra	Nandurbar	129370	90559	22468	8
254	31	Maharashtra	Palghar	136083	95258	20565	7
255	32	Maharashtra	Washim	114896	80427	14129	6
256	33	Maharashtra	Gadchiroli	146321	102425	15313	5

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
257	34	Maharashtra	Mumbai	30826	21578	0	0
258	1	Odisha	Baragarh	92830	64981	84875	44
259	2	Odisha	Jagatsinghpur	142550	99785	128613	43
260	3	Odisha	Sonepur	48114	33680	31365	31
261	4	Odisha	Bolangir	95586	66910	60598	30
262	5	Odisha	Cuttack	235178	164625	144867	29
263	6	Odisha	Sambalpur	71861	50302	43214	29
264	7	Odisha	Puri	211005	147704	105752	24
265	8	Odisha	Nayagarh	68056	47639	33924	24
266	9	Odisha	Nuapara	45430	31801	20832	22
267	10	Odisha	Angul	109544	76681	49924	22
268	11	Odisha	Jharsuguda	29715	20801	13216	21
269	12	Odisha	Kendrapara	169926	118948	68809	19
270	13	Odisha	Kalahandi	86019	60214	33453	19
271	14	Odisha	Balasore	260390	182273	97768	18
272	15	Odisha	Nawarangpur	98526	68968	35347	17
273	16	Odisha	Boudh	47281	33097	15228	15
274	17	Odisha	Keonjhar	158330	110831	48570	15
275	18	Odisha	Khurda	129676	90774	39412	14
276	19	Odisha	Jajpur	187844	131491	56395	14
277	20	Odisha	Mayurbhanj	189421	132595	56054	14
278	21	Odisha	Sundargarh	141176	98823	37149	13
279	22	Odisha	Rayagada	99863	69904	25584	12
280	23	Odisha	Deogarh	40699	28489	10338	12
281	24	Odisha	Dhenkanal	144643	101250	36610	12
282	25	Odisha	Bhadrak	191304	133913	47872	12
283	26	Odisha	Ganjam	219064	153345	50774	11
284	27	Odisha	Kandhamal	92821	64975	20939	11
285	28	Odisha	Koraput	149774	104842	29092	9
286	29	Odisha	Gajapati	48718	34102	6445	6
287	30	Odisha	Malkangiri	111240	77868	6552	3
288	1	Punjab	Gurdaspur	272343	190640	269584	47
289	2	Punjab	Hoshiarpur	411046	287732	260228	30
290	3	Punjab	Jalandhar	389558	272691	245529	30
291	4	Punjab	Kapurthala	195867	137107	114814	28
292	5	Punjab	Sbs nagar	170226	119158	99227	28
293	6	Punjab	Rupnagar	209214	146450	117513	27
294	7	Punjab	Bathinda	394154	275908	216921	26
295	8	Punjab	Sas nagar	186882	130817	102020	26
296	9	Punjab	Fatehgarh sahib	209804	146863	112294	25
297	10	Punjab	Ludhiana	672659	470861	348273	25
298	11	Punjab	Amritsar	537284	376099	264504	23
299	12	Punjab	Moga	336105	235274	165148	23

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
300	13	Punjab	Patiala	452435	316705	210029	22
301	14	Punjab	Faridkot	196993	137895	83523	20
302	15	Punjab	Barnala	235436	164805	98538	20
303	16	Punjab	Mukatsar	282522	197765	111705	19
304	17	Punjab	Sangrur	661650	463155	260596	19
305	18	Punjab	Mansa	332281	232597	130473	19
306	19	Punjab	Fazlika	387167	271017	130641	16
307	20	Punjab	Tarn taran	471285	329900	133185	13
308	21	Punjab	Ferozpur	387167	271017	108234	13
309	22	Punjab	Pathankot	272343	190640	71397	12
310	1	Rajasthan	Jaipur	942500	659750	504884	26
311	2	Rajasthan	Alwar	660202	462141	291673	21
312	3	Rajasthan	Dungarpur	241824	169277	105475	21
313	4	Rajasthan	Jhunjhunu	312326	218628	121426	19
314	5	Rajasthan	Sikar	462738	323917	175667	18
315	6	Rajasthan	Jodhpur	605592	423914	197978	16
316	7	Rajasthan	Banswara	338239	236767	107420	15
317	8	Rajasthan	Ajmer	467382	327167	145992	15
318	9	Rajasthan	Chittorgarh	403475	282433	123240	15
319	10	Rajasthan	Sriganga nagar	533000	373100	154059	14
320	11	Rajasthan	Bhilwara	596123	417286	171785	14
321	12	Rajasthan	Karauli	302170	211519	82596	13
322	13	Rajasthan	Hanumangarh	435702	304991	110506	12
323	14	Rajasthan	Bharatpur	535160	374612	129634	12
324	15	Rajasthan	Dholpur	229757	160830	50492	10
325	16	Rajasthan	Dausa	339958	237971	73389	10
326	17	Rajasthan	Rajsamand	242200	169540	46799	9
327	18	Rajasthan	Udaipur	647665	453366	120062	9
328	19	Rajasthan	Tonk	326524	228567	58825	9
329	20	Rajasthan	Pali	345928	242150	61883	9
330	21	Rajasthan	Nagaur	571581	400107	94606	8
331	22	Rajasthan	Bundi	291175	203823	46927	8
332	23	Rajasthan	Churu	334128	233890	52997	8
333	24	Rajasthan	Sawaimadhopur	233315	163321	34980	7
334	25	Rajasthan	Pratapgarh	196093	137265	29325	7
335	26	Rajasthan	Sirohi	194873	136411	28578	7
336	27	Rajasthan	Baran	294856	206399	40006	6
337	28	Rajasthan	Jalore	376937	263856	48951	6
338	29	Rajasthan	Bikaner	554793	388355	68241	6
339	30	Rajasthan	Kota	249144	174401	26990	5
340	31	Rajasthan	Jhalawar	349885	244920	36925	5
341	32	Rajasthan	Barmer	523875	366713	28916	3
342	33	Rajasthan	Jaisalmer	227426	159198	4632	1

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
343	1	Tamil nadu	Tiruvannamallai	401566	281096	417204	49
344	2	Tamil nadu	Virudhunagar	150838	105587	156530	49
345	3	Tamil nadu	Viluppuram	497923	348546	501903	48
346	4	Tamil nadu	Kancheepuram	242429	169700	236650	46
347	5	Tamil nadu	Salem	448268	313788	435607	46
348	6	Tamil nadu	Ramanathapuram	53127	37189	50601	45
349	7	Tamil nadu	Thiruvallur	173244	121271	154845	43
350	8	Tamil nadu	Cuddalore	222160	155512	197509	42
351	9	Tamil nadu	The nilgiris	36381	25467	28511	37
352	10	Tamil nadu	Sivaganga	141589	99112	88757	30
353	11	Tamil nadu	Nagapattinam	182390	127673	90563	24
354	12	Tamil nadu	Pudukkottai	307709	215396	148907	23
355	13	Tamil nadu	Chennai	4990	3493	2410	23
356	1	Telangana	Yadadri bhuvangiri	108409	75886	90797	40
357	2	Telangana	Karimnagar	83781	58647	64324	37
358	3	Telangana	Khammam	259099	181369	190599	35
359	4	Telangana	Warangal (rural)	73222	51255	51693	34
360	5	Telangana	Warangal (urban)	71300	49910	48859	33
361	6	Telangana	Rajanna sircilla	47972	33580	31431	31
362	7	Telangana	Peddapalli	76212	53348	46297	29
363	8	Telangana	Sanga reddy	118541	82979	71741	29
364	9	Telangana	Nalgonda	238012	166608	142728	29
365	10	Telangana	Jagtial	59378	41565	34464	28
366	11	Telangana	Mahabubabad	83029	58120	44102	25
367	12	Telangana	Suryapet	212197	148538	106357	24
368	13	Telangana	Jangaon	81359	56951	40185	24
369	14	Telangana	Medak	112921	79045	54057	23
370	15	Telangana	Bhadradri kothagudem	115165	80616	54106	22
371	16	Telangana	Siddipet	185386	129770	86200	22
372	17	Telangana	Mulugu	56951	39866	25123	21
373	18	Telangana	Wanaparthy	58514	40960	25363	21
374	19	Telangana	Jayashankar bhupalpally	81915	57341	34852	20
375	20	Telangana	Nagarkurnool	112923	79046	43746	18
376	21	Telangana	Medchal	57207	40045	21569	18
377	22	Telangana	Jogulamba gadwal	97405	68184	35059	17
378	23	Telangana	Ranga reddy	180144	126101	62527	17
379	24	Telangana	Narayanapet	80156	56109	26534	16
380	25	Telangana	Vikarabad	106105	74274	34999	16
381	26	Telangana	Mahabubnagar	87080	60956	28053	15
382	27	Telangana	Nizamabad	178172	124720	51154	14
383	28	Telangana	Kamareddy	186038	130227	48362	12
384	29	Telangana	Adilabad	74047	51833	15637	10
385	30	Telangana	Komaram bheem	60600	42420	11651	9

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
386	31	Telangana	Mancherial	112561	78793	16302	7
387	32	Telangana	Hyderabad	35431	24802	2896	4
388	33	Telangana	Nirmal	259946	181962	15625	3
389	1	Uttar pradesh	Rae Bareli	330937	231656	270334	39
390	2	Uttar pradesh	Gorakhpur	288139	201697	231194	38
391	3	Uttar pradesh	Chandauli	222869	156008	177353	38
392	4	Uttar pradesh	Kushinagar	226619	158633	179921	38
393	5	Uttar pradesh	Amethi	292109	204476	222467	36
394	6	Uttar pradesh	Faizabad	311021	217715	228957	35
395	7	Uttar pradesh	Baliya	271065	189746	198905	35
396	8	Uttar pradesh	Sant Kabir Nagar	104028	72820	75811	35
397	9	Uttar pradesh	Lucknow	288424	201897	209198	35
398	10	Uttar pradesh	Maharajganj	123862	86703	89835	35
399	11	Uttar pradesh	Sitapur	410357	287250	293979	34
400	12	Uttar pradesh	Hardoi	485230	339661	345013	34
401	13	Uttar pradesh	Barabanki	404982	283487	287374	34
402	14	Uttar pradesh	Pilibhit	194908	136436	138104	34
403	15	Uttar pradesh	Muzaffarnagar	358134	250694	247005	33
404	16	Uttar pradesh	Etawah	210581	147407	145228	33
405	17	Uttar pradesh	Saharanpur	449778	314845	308179	33
406	18	Uttar pradesh	Eta	337467	236227	231221	33
407	19	Uttar pradesh	Auriya	166456	116519	113655	33
408	20	Uttar pradesh	Hathras	244123	170886	166185	32
409	21	Uttar pradesh	Shamli	183780	128646	124422	32
410	22	Uttar pradesh	Baghpat	246055	172239	166574	32
411	23	Uttar pradesh	Hapur	192826	134978	129745	32
412	24	Uttar pradesh	Meerut	415198	290639	277360	32
413	25	Uttar pradesh	Ghaziabad	161041	112729	107557	32
414	26	Uttar pradesh	Ambedkar Nagar	249037	174326	165085	32
415	27	Uttar pradesh	Bulandshahr	772262	540583	507993	31

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
416	28	Uttar pradesh	Bahraich	410242	287169	269849	31
417	29	Uttar pradesh	Gautam Buddha Nagar	176930	123851	115873	31
418	30	Uttar pradesh	Mainpuri	270945	189662	177095	31
419	31	Uttar pradesh	Siddharthnagar	196964	137875	126856	31
420	32	Uttar pradesh	Basti	233004	163103	148898	30
421	33	Uttar pradesh	Sambhal	356796	249757	223053	30
422	34	Uttar pradesh	Kanpur Dehat	272185	190530	167753	29
423	35	Uttar pradesh	Kaushambi	179741	125819	109472	29
424	36	Uttar pradesh	Amroha	366611	256628	222929	29
425	37	Uttar pradesh	Badanu	497506	348254	302332	29
426	38	Uttar pradesh	Farrukhabad	199093	139365	118536	28
427	39	Uttar pradesh	Jaunpur	477807	334465	283700	28
428	40	Uttar pradesh	Mau	170319	119223	101024	28
429	41	Uttar pradesh	Allahabad	573850	401695	338341	28
430	42	Uttar pradesh	Deoria	216301	151411	126765	28
431	43	Uttar pradesh	Azamgarh	500621	350435	284823	27
432	44	Uttar pradesh	Gonda	410044	287031	230446	27
433	45	Uttar pradesh	Varanasi	317483	222238	174062	26
434	46	Uttar pradesh	Unnao	402168	281518	217592	26
435	47	Uttar pradesh	Bijnor	416685	291680	222714	25
436	48	Uttar pradesh	Firozabad	312362	218653	165169	25
437	49	Uttar pradesh	Agra	599250	419475	309100	25
438	50	Uttar pradesh	Kannauj	217214	152050	109850	24
439	51	Uttar pradesh	Moradabad	288128	201690	145153	24
440	52	Uttar pradesh	Balrampur	184633	129243	92209	24
441	53	Uttar pradesh	Rampur	278717	195102	137782	24
442	54	Uttar pradesh	Aligarh	633972	443780	311174	23
443	55	Uttar pradesh	Kanpur Nagar	315171	220620	154551	23
444	56	Uttar pradesh	Sultanpur	333047	233133	162414	23

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
445	57	Uttar pradesh	Fatehpur	459675	321773	217400	23
446	58	Uttar pradesh	Mathura	503219	352253	237468	22
447	59	Uttar pradesh	Shravasti	135441	94809	61956	22
448	60	Uttar pradesh	Mirzapur	298631	209042	132659	21
449	61	Uttar pradesh	Pratapgarh	359534	251674	158825	21
450	62	Uttar pradesh	Bhadohi	179609	125726	79016	21
451	63	Uttar pradesh	Lakimpur khiri	527008	368906	227459	21
452	64	Uttar pradesh	Kasganj	427823	299476	184473	21
453	65	Uttar pradesh	Ghazipur	435763	305034	171910	19
454	66	Uttar pradesh	Shahjahanpur	346482	242537	134284	18
455	67	Uttar pradesh	Sonbhadra	278821	195175	98795	17
456	68	Uttar pradesh	Bareilly	418300	292810	145672	17
457	69	Uttar pradesh	Jaloun	241538	169077	67983	13
458	70	Uttar pradesh	Chitrakoot	288561	201993	67859	11
459	71	Uttar pradesh	Hamirpur	228057	159640	45986	10
460	72	Uttar pradesh	Jhansi	299916	209941	48192	8
461	73	Uttar pradesh	Banda	308247	215773	43096	7
462	74	Uttar pradesh	Lalitpur	358665	251066	35433	5
463	75	Uttar pradesh	Mahoba	167196	117037	12942	4
464	1	Uttrakhand	Haridwar	194297	136008	144211	35
465	2	Uttrakhand	Dehradun	113958	79771	84137	35
466	3	Uttrakhand	Nainital	122296	85607	77486	30
467	4	Uttrakhand	Champawat	50210	35147	21641	21
468	5	Uttrakhand	Bageshwar	59888	41922	24173	19
469	6	Uttrakhand	Uttarkashi	57988	40592	22268	18
470	7	Uttrakhand	Chamoli	82920	58044	28090	16
471	8	Uttrakhand	Almora	125575	87903	38352	15
472	9	Uttrakhand	Rudraprayag	56477	39534	14180	12
473	10	Uttrakhand	Pithoragarh	112875	79013	25919	11
474	11	Uttrakhand	Tehri	92387	64671	20636	11
475	12	Uttrakhand	Pauri	155408	108786	27141	8
476	1	West Bengal	Murshidabad	472226	330558	462807	47
477	2	West Bengal	Malda	246259	172381	204590	40
478	3	West Bengal	Coochbehar	317982	222587	236519	35

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
479	4	West Bengal	Birbhum	300733	210513	214354	34
480	5	West Bengal	Hooghly	434546	304182	299284	33
481	6	West Bengal	Dakshin Dinajpur	159402	111581	97694	29
482	7	West Bengal	Jalpaiguri	207209	145046	117686	27
483	8	West Bengal	Purba Burdwan	638039	446627	351934	26
484	9	West Bengal	Alipurduar	139156	97409	76439	26
485	10	West Bengal	Howrah	166823	116776	88959	25
486	11	West Bengal	Paschim Burdwan	85537	59876	44675	25
487	12	West Bengal	Paschim Midnapur	714715	500301	345358	23
488	13	West Bengal	North 24 Pgs	418309	292816	201851	23
489	14	West Bengal	Siliguri (Div.)	59477	41634	27834	22
490	15	West Bengal	Bankura	520388	364272	221245	20
491	16	West Bengal	Jhargram	132748	92924	49098	18
492	17	West Bengal	South 24 Pgs	413948	289764	141512	16
493	18	West Bengal	Purulia	237519	166263	77068	15
494	19	West Bengal	Purba Midnapur	599406	419584	164824	13
495	20	West Bengal	Kalimpong	27891	19524	2544	4
496	21	West Bengal	Darjeeling (GTA)	29316	40045	2438	2
497	1	Arunachal Pradesh	Papumpare	15888	11121.6	1562	5
498	2	Arunachal Pradesh	Namsai	2793	1955	219	4
499	3	Arunachal Pradesh	East Siang	14115	9880	231	1
500	4	Arunachal Pradesh	West Kameing	10516	7361	172	1
501	5	Arunachal Pradesh	West Siang	8646	6052	129	1
502	6	Arunachal Pradesh	Anjaw	-	-	-	-
503	7	Arunachal Pradesh	Changlang	-	-	-	-
504	8	Arunachal Pradesh	East Kameng	-	-	-	-
505	9	Arunachal Pradesh	kra-daadi	-	-	-	-
506	10	Arunachal Pradesh	Kurung Kumey	-	-	-	-
507	11	Arunachal Pradesh	Lohit	-	-	-	-
508	12	Arunachal Pradesh	Long Ding	-	-	-	-
509	13	Arunachal Pradesh	Lower Dibang Valley	-	-	-	-
510	14	Arunachal Pradesh	Lower Subansiri	-	-	-	-
511	15	Arunachal Pradesh	Siang	-	-	-	-
512	16	Arunachal Pradesh	Tawang	-	-	-	-
513	17	Arunachal Pradesh	Tirap	-	-	-	-

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
514	18	Arunachal Pradesh	Upper Dibang valley	-	-	-	-
515	19	Arunachal Pradesh	Upper Siang	-	-	-	-
516	20	Arunachal Pradesh	Upper Subansiri	-	-	-	-
517	1	Assam	Barpeta	200358	140251	50480	12
518	2	Assam	Bongaigaon	93006	65104	19818	10
519	3	Assam	Nalbari	133872	93711	27097	10
520	4	Assam	Kamrup	271808	190265	38594	7
521	5	Assam	Darrang	155508	108855	20376	6
522	6	Assam	Nagaon	321817	225272	40841	6
523	7	Assam	Morigaon	134538	94177	14033	5
524	8	Assam	Dhubri	179744	125821	15884	4
525	9	Assam	Golaghat	160247	112173	12892	4
526	10	Assam	Tinsukia	140818	98572	11152	4
527	11	Assam	Sonitpur	393101	275171	30060	4
528	12	Assam	Jorhat	208295	145806	15250	3
529	13	Assam	Hailakandi	67990	47593	4651	3
530	14	Assam	Cachar	153931	107751	9351	3
531	15	Assam	Kokrajhar	134275	93993	7572	3
532	16	Assam	Chirang	93313	65319	5141	3
533	17	Assam	Karimganj	115954	81168	5837	2
534	18	Assam	Dibrugarh	163505	114454	7872	2
535	19	Assam	Goalpara	114070	79849	5156	2
536	20	Assam	Sivasagar	161160	112812	6409	2
537	21	Assam	Udalguri	128919	90243	4562	2
538	22	Assam	Lakhimpur	198398	138879	6839	2
539	23	Assam	Baksa	193547	135483	6095	1
540	24	Assam	Karbi anglong (east)	121492	85044	3433	1
541	25	Assam	South Salmara - mankachar	10956	7669	92	0
542	26	Assam	Dhemaji	149496	104647	970	0
543	27	Assam	Biswanath	-	-	-	-
544	28	Assam	Charaideo	-	-	-	-
545	29	Assam	Dima Hasao (NC hills)	-	-	-	-
546	30	Assam	Hojai	-	-	-	-
547	31	Assam	Kamrup Metro	-	-	-	-
548	32	Assam	Majuli	-	-	-	-
549	33	Assam	Karbi anglong (West)	-	-	-	-
550	1	Manipur	Imphal-West	7797	5458	4606	28
551	2	Manipur	Bishnupur	8754	6128	1798	10
552	3	Manipur	Imphal-East	10675	7473	1525	7
553	4	Manipur	Thoubal	17949	12564	2511	7
554	5	Manipur	Senapati	22596	15817	768	2

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
555	6	Manipur	Churachandpur	13819	9673	280	1
556	7	Manipur	Chandel	9436	6605	146	1
557	8	Manipur	Ukhrul	13939	9757.3	98	0
558	9	Manipur	Tamenglong	8450	5915	0	0
559	1	Meghalaya	East Khasi Hills District	30000	21000	9308	15
560	2	Meghalaya	West Garo Hills District	147458	103220	2808	1
561	3	Meghalaya	East Jaintia Hills District	33337	23335	317	0
562	4	Meghalaya	South Garo Hills District	25090	17563	26	0
563	5	Meghalaya	West Khasi Hills District	39225	27457	32	0
564	6	Meghalaya	East Garo Hills District	46813	32769	26	0
565	7	Meghalaya	Ribhoi	13253	9277	9308	15
566	8	Meghalaya	North Garo Hills	-	-	-	-
567	9	Meghalaya	South West Garo Hills	-	-	-	-
568	10	Meghalaya	South West Khasi Hills	-	-	-	-
569	11	Meghalaya	West Jaintia Hills	-	-	-	-
570	1	Mizoram	Aizawl	6911	4838	23	0
571	2	Mizoram	serchhip	2374	1662	6	0
572	3	Mizoram	Lunglei	4576	3203	11	0
573	4	Mizoram	Kolasib	6278	4395	12	0
574	5	Mizoram	Mamit	2711	1898	3	0
575	6	Mizoram	champhai	8237	5766	9	0
576	7	Mizoram	Siaha	3182	2227	3	0
577	8	Mizoram	Lawngtlai	3999	2799	3	0
578	1	Nagaland	Kiphire	3808	2666	6	0
579	2	Nagaland	Dimapur	-	-	-	-
580	3	Nagaland	Kohima	-	-	-	-
581	4	Nagaland	Longleng	-	-	-	-
582	5	Nagaland	Mokokchung	-	-	-	-
583	6	Nagaland	Mon	-	-	-	-
584	7	Nagaland	Peren	-	-	-	-
585	8	Nagaland	Phek	-	-	-	-
586	9	Nagaland	Tuensang	-	-	-	-
587	10	Nagaland	Wokha	-	-	-	-
588	11	Nagaland	Zunheboto	-	-	-	-
589	1	Sikkim	East	20697	14487	8451	19
590	2	Sikkim	West	18037	12625	5313	14
591	3	Sikkim	South	15823	11076	3008	9
592	4	Sikkim	North	5480	3836	149	1
593	1	Tripura	Gomati	46138	32297	7672	8
594	2	Tripura	Sipahijala	49255	34479	7512	7
595	3	Tripura	West Tripura	48531	33972	6845	7
596	4	Tripura	North	33073	23151	3485	5

Con. S.No	S. No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
597	5	Tripura	Khowai	41943	29360	4281	5
598	6	Tripura	South Tripura	55950	39165	5510	5
599	7	Tripura	Unokoti	25187	17631	2137	4
600	8	Tripura	Dhalai	38248	26774	3063	4
Total				129592994	90967776	51796373	18

Annexure-II Expenditure to be incurred under Genetic Upgradation in districts less than 50% A.I coverage

S. No	States	No. of districts	No.of Villages /district	No.of animals/village	Target no.of animals	No.of A.I doses to be performed (3 A.I / animal + 10% extra)	Cost of semen doses incl.consumables, transportation and Storage @ Rs.25/dose	Incentives to A.I. tech @ Rs. 50/A.I	Incentives to A.I. tech @ Rs. 100/Calf born	Data entry operator on consolidated basis @ Rs. 10000/- per month for 8 months	Contingency grant @ Rs 1000 per village for wall writing, Banners etc.and monitoring of progress	Contingency grant @ Rs. 50,000/- per district for publicity, storage and transportation of semen doses & AI consumables	Awareness programme at States level @ Rs. 1 lakh/ District	Total expenditure under KKA/HYI B (Rs. in Lakh)	Unspent available under KKA/HYI B (Rs. in Lakh)
1	Andhra Pradesh	9	100	200	180000	540000	14850000	27000000	18000000	720000	900000	450000	900000	628.20	0.00
2	Bihar	38	100	200	760000	2280000	62700000	114000000	76000000	3040000	3800000	1900000	3800000	2652.40	893.90
3	Chattisgarh	27	100	200	540000	1620000	44550000	81000000	54000000	2160000	2700000	1350000	2700000	1884.60	427.76
4	Gujarat	21	100	200	420000	1260000	34650000	63000000	42000000	1680000	2100000	1050000	2100000	1465.80	118.83
5	Goa	2	100	200	40000	120000	3300000	6000000	4000000	160000	200000	100000	200000	139.60	0.00
6	Haryana	5	100	200	100000	300000	8250000	15000000	10000000	400000	500000	250000	500000	349.00	55.51
7	Himachal Pradesh	11	100	200	220000	660000	18150000	33000000	22000000	880000	1100000	550000	1100000	767.80	25.77
8	Jammu & Kashmir	18	100	200	360000	1080000	29700000	54000000	36000000	1440000	1800000	900000	1800000	1256.40	124.99
9	Jharkhand	24	100	200	480000	1440000	39600000	72000000	48000000	1920000	2400000	1200000	2400000	1675.20	903.11
10	Karnataka	17	100	200	340000	1020000	28050000	51000000	34000000	1360000	1700000	850000	1700000	1186.60	105.93
11	Madhya Pradesh	51	100	200	1020000	3060000	84150000	153000000	102000000	4080000	5100000	2550000	5100000	3559.80	480.00
12	Maharashtra	34	100	200	680000	2040000	56100000	102000000	68000000	2720000	3400000	1700000	3400000	2373.20	259.33
13	Odisha	30	100	200	600000	1800000	49500000	90000000	60000000	2400000	3000000	1500000	3000000	2094.00	536.38
14	Punjab	22	100	200	440000	1320000	36300000	66000000	44000000	1760000	2200000	1100000	2200000	1535.60	126.55
15	Rajasthan	33	100	200	660000	1980000	54450000	99000000	66000000	2640000	3300000	1650000	3300000	2303.40	323.19
16	Tamil Nadu	13	100	200	260000	780000	21450000	39000000	26000000	1040000	1300000	650000	1300000	907.40	141.58
17	Telangana	33	100	200	660000	1980000	54450000	99000000	66000000	2640000	3300000	1650000	3300000	2303.40	128.26

18	Uttar Pradesh	75	100	200	1500000	4500000	4950000	123750000	225000000	150000000	6000000	7500000	3750000	7500000	5235.00	470.80
19	Uttarakhand	12	100	200	240000	720000	792000	19800000	36000000	24000000	960000	1200000	600000	1200000	837.60	110.79
20	West Bengal	21	100	200	420000	1260000	1386000	34650000	63000000	42000000	1680000	2100000	1050000	2100000	1465.80	0.00
	Total	496	2000	4000	9920000	29760000	32736000	818400000	1488000000	992000000	39680000	49600000	24800000	49600000	34620.8	5232.67942

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Annexure-III A.I Format for INAPH Uploading

Information Network for Animal Productivity and Health (INAPH)

A.I. Format (Compulsory fields)

<< Name of the Organisation >>

Technician Name _____ Month _____ Year _____

User ID _____ Date: _____

I   Registration

a   Animal Details

1   * Tag Number

2   * Registration Date   (DD/MM/YYYY)

3   * Sex   ☐ Male   ☐ Female

4   * Species   ☐ Cattle   ☐ Buffalo   ☐ Yak   ☐ Mithun   ☐ Sheep   ☐ Goat   ☐ Pig

5   * Breed Name

6   * Age   ☐ Years   ☐ Months

7   * Number of Calvings

8   *Pregnancy Status   ☐ Yes   ☐ No

b   **Owner Details**

1   * Village Name

2   *Hamlet Name

3   * Owner Name

4   * Owner Gender   Male   Female

5   * Mobile number

6   *Aadhar No

II   **A.I Transaction**

1   * Tag Number

2   * Date of A.I   (DD/MM/YYYY)

3   *Bull ID

III   **Pregnancy Diagnosis**

1   *Result of P.D   Pregnant   Non pregnant

IV   **Calving Transaction**

1   * Tag Number

2   *Date of calving

3   *Calving type   Male   Female   Twins

4   * Ease of calving   Normal   Dystocia

Signature

Fields Marked with * are Mandatory

Suggestions for Printer

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1. One format will be used for one animal.
2. Format should be printed in 2 copies. While capturing the data carbon paper will be used. Lower copy will be office copy at centralised location(Taluka/district).
3. If the data is not uploaded by the A.I technician himself, main copy will be forwarded for data entry at AI Center.
4. Different colours may be given to different copies.
5. Rice paper (thin paper) should be used, to enable impression upto last copy.