F.No.N-03/101/2018-AHT (RGM)
Government of India
Ministry of Fisheries, Animal Husbandry and Dairying
Department of Animal Husbandry and Dairying

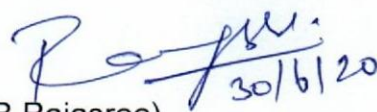Krishi Bhavan, New Delhi
30.6.2020

Office memorandum

Sub: **Nationwide Artificial Insemination programme Phase II –
Administrative approval and Guidelines for implementation of NAIP
Phase II in 604 districts with less than 50 % A.I coverage from 1st
August 2020 to 31st May 2021   – Reg.**

The undersigned is directed to inform that, with regard to implementation of the
Nationwide Artificial Insemination programme (NAIP) Phase II, the Administrative
approval and guidelines on programme implementation in chosen 604 districts with
less than 50 % A.I coverage is attached herewith for necessary action. The
programme will commence from 1st August 2020 to 31st May 2021.

States (excluding Himachal Pradesh, Uttarakhand, UT's - Jammu, Kashmir, Ladakh
and NER States) are requested to send the district wise list of selected 500 villages
on or before 15th July 2020.

Encl: as above

(B.Rajasree)   30/6/20
Assistant Commissioner (RGM)

Distribution:

1. Principal Secretary/ Secretary, Animal Husbandry Department of all States.
2. Director, Animal Husbandry Department of all States
3. Chief Executive Officer, Livestock Development Agency/Board of all States
4. Concerned District Veterinary Officers of all States

Copy for kind information to:

PPS to Secy (AHD)/PPS to AHC/ PS to JS (C& DD)

GUIDELINES ON IMPLEMENTATION OF NATIONWIDE ARTIFICIAL INSEMINATION PROGRAMME - PHASE II (NAIP II)   IN DISTRICTS WITH LESS THAN 50% A.I COVERAGE

FROM 1st AUGUST 2020 TO 31st MAY 2021

MINISTRY OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING

DEPARTMENT OF ANIMAL HUSBANDRY AND DAIRYING

KRISHI BHAVAN, NEW DELHI-110001

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GUIDELINES ON IMPLEMENTATION OF NATIONWIDE ARTIFICIAL INSEMINATION PROGRAMME - PHASE II (NAIP II)   IN DISTRICTS WITH LESS THAN 50% A.I COVERAGE

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 2019-20, Nationwide Artificial Insemination Programme (NAIP) was implemented in 605 districts having less than 50% A.I coverage, covering 300 villages of each chosen district. Under this programme, more than 50 Lakh bovines had been inseminated with semen of high genetic merit bulls. Over 25 Lakh farmers got benefitted through this programme.

1.3   Owing to the success of the programme, it has been proposed to continue the campaign mode NAIP Phase II 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.

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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 female 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 604 identified districts having less than 50% A.I coverage from 1st August 2020 to 31st May 2021 over a period of 10 months covering around 300 lakh breedable female bovine populations, covering 500 villages per district. In every district, a minimum of 100 animals to be covered.

In case of North Eastern States and Hilly States/Union Territories (Himachal Pradesh, Uttarakhand, Union Territories of Jammu and Kashmir and Ladakh), the programme is extended to all villages and to all districts.

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 8 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.   Those villages that were not covered under NAIP Phase I, shall be selected under NAIP Phase II 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. 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 100 breedable bovines 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. However the State Government may modify the list in consultation with the

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Collector. The list of selected villages approved by the District Collector is to be uploaded on INAPH platform, which will have a limit of 500 villages/ district (except North Eastern States and Hilly States/Union Territories- Himachal Pradesh, Uttarakhand, Union Territories of Jammu and Kashmir and Ladakh where all villages are to be covered). If sufficient villages are not available in some districts, then potential villages covered earlier may also be included. **The list of selected villages should be intimated to this Department on or before 15th July 2020 by email to inaphcell@nddb.coop, manish@nddb.coop and b.rajasree@nic.in in the prescribed format with LGD codes. For downloading Local Directory Code (LGD), the link http://inaphftt.nddb.coop/INAPHBinaryDownload/Download/CensusData.xlsx shall be used.**

.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 and NAIP Phase I 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: (1st August 2020 to 31st May 2021):

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 4 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. MSP of different breeds notified by GOI is attached at Annexure – II.

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. 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 for pregnancy diagnosis till calf born and all the events shall be recorded on the data base.

11. PARENTAGE TESTING:

Parentage testing shall be done for 1% of the calves born through NAIP Phase I in each district @ Rs.100/calf .

12. DATA UPLOADING ON INAPH: The A.I technicians who have been given tablets under Pashu Sanjivani, (currently used for 20thLivestock Census) must use the tablet directly or use their mobile phone for uploading data on **INAPH LITE** application on INAPH data base managed by National Dairy Development Board (NDDB). 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 LITE** application, on INAPH data base.
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 (Stepwise 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.

12.1   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.

12.2 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.

13.   DATA REPORTING OF PROGRESS ON INAPH: Daily reporting of village wise and district wise progress on the No. of AI done shall be done by the concerned DAHO on INAPH data base so as to provide public scrutiny/ assessment of the programme. **Reports on follow-up on the A.I done, i.e. Pregnancy diagnosis after a period of 3 months of A.I and calves born details after 10 months of A.I shall also to be uploaded on INAPH. The DAHO shall ensure that the progress is uploaded for all activities related to A.I on INAPH immediately, to ensure that the data made available is on real time basis.**

13.1   All District Veterinary Officers are allowed to hire two 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 10 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.

14   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.

15. 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.

.(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:** Central 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, 3 Veterinarians and 1 Management Consultant 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.

16. CALL CENTRE AT DAHD created under NADCP programme will be utilised for NAIP.

17. 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 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) **In case of North Eastern States and Hilly States/Union Territories (Himachal Pradesh, Uttarakhand, Union Territories of Jammu and Kashmir and Ladakh),** the incentive for private A.I technicians (Not getting salary by Government or Co-operatives) shall be @ Rs.100/- per A.I. The incentive to Government /Cooperatives

workers in NER States shall be @ Rs. 75 per A.I. and in case of hilly States/UT's, the incentive to Government /Cooperatives workers shall be Rs. 50 per A.I.

18. FINANCIAL IMPLICATION:

For implementing the genetic upgradation programme in Bovines in 604 districts including aspirational districts with less than 50 % A.I coverage in from (1st August 2020 to 31st May 2021), the expenditure proposed is as below :

S. No.	Item	Physical/ Rs. in Crore
1	No. of villages to be covered per district	500 Nos
2	Average No. of animals to be covered per village	100 Nos
3	Total no. of animals to be covered / district	50000 Nos
4	No. of AI to be conducted per village (up to 3 A.I per animal)	300 Nos
5	Total No. of AIs to be performed per district	150000 Nos
6	No. of semen doses required (10% extra over number of AI)	165000 doses
7	Cost of Semen doses including consumables, transportation and storage @ Rs. 25/per dose (in Rs) per district	Rs. 0.4125
8	Incentive to AI technicians @ Rs 50 per AI including data uploading on INAPH per district	Rs. 0.75
9	Incentive to AI technicians after birth of each calf @ Rs 100 per calf including data uploading on INAPH per district	Rs. 0.5
10	Two data entry operators on consolidated salary of Rs. 10000/-month on short time basis (10 months) for uploading AI data per district	Rs.0.02
11	Contingency grant @ Rs 1000 per village for wall writing, Banners ,leaflets, pamphlets and monitoring of progress	Rs.0.05
12	Contingency grant @ Rs. 50,000/- per district for publicity, storage and transportation of semen doses & AI consumables	Rs.0.005
13	Parentage testing @ Rs.100 per calf for 1% of total no.of calves born in the district	Rs.0.05
14	**Total per district**	Rs. **1.7875**
15	**Total for 604 districts**	Rs.**1079.65**
	At State level	
16	Awareness programme at State level @ Rs.1.00 Lakh /District - Printing of A.I formats, Publicity on Television, Preparing and broadcasting of Radio jingles on A.I and Organising Awareness camps	Rs.6.04
17	Total expenditure for 28 States/UTs	Rs.**1085.69**
18	Fund requirement for 500 districts by non NER States/UT's (excl. NER*)	Rs.**898.75**
	DAHD Headquarters	

19	Awareness campaigne @1% of total cost	4.0
20	Hiring of manpower on consolidated salary of @ Rs.50,000/-per month (3 Vets for monitoring of INAPH and 1Management Consultant for monitoring the AI progress and) on short term basis for one year.	0.24
21	Three data entry operators on consolidated salary of Rs. 18000/-month on short time basis (one year) for compiling of progress	0.065
22	Evaluation of NAIP Phase II by an independent agency	0.4
23	**Total fund requirement**	**903.46**
24	**Unspent balance available under NAIP I**	**134.57**
25	**Net fund requirement by States**	**768.89**

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

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

19. 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.

20. IMPACT ANALYSIS

Third party evaluation will be under taken in districts covered under sub-scheme NAIP Phase I, 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.

21. EXPECTED PROJECT OUTCOME

- Around 9 Crore number of AI's would result into birth of 3 Cr superior male and female calves.

- Due to this campaign mode approach,1.5 Crore superior female calves will be produced which will yield 54 MMT of milk /annum after 3 years.

- Cows and buffaloes worth Rs.60,000 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. 21750 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

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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 %
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	Pashchimchamparan	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
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

Con. S.No	S. N o	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
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	Janjgirchampa	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
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

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 %
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	Girsomnath	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	Devbhumidwarka	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	12	Himachal pradesh	Una	89923	62946	96355	51
115	1	Jammu & Kashmir	Kulgam	71173	49821	73661	49
116	2	Jammu & Kashmir	Samba	44604	31223	43929	47
117	3	U.T Jammu & Kashmir	Shupiyan	47709	33396	41375	41
118	4	U.T Jammu & Kashmir	Anantnag	123343	86340	105136	41
119	5	U.T Jammu & Kashmir	Jammu	193628	135540	145740	36

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 %
120	6	U.T Jammu & Kashmir	Baramula	102742	71919	75658	35
121	7	U.T Jammu & Kashmir	Bandipore	50876	35613	32615	31
122	8	U.T Jammu & Kashmir	Kathua	115414	80790	53219	22
123	9	U.T Jammu & Kashmir	Kupwara	113390	79373	45922	19
124	10	U.T Jammu & Kashmir	Doda	70927	49649	17339	12
125	11	U.T Jammu & Kashmir	Udhampur	122810	85967	25570	10
126	12	U.T Jammu & Kashmir	Poonch	90000	63000	16194	9
127	13	U.T Jammu & Kashmir	Rajouri	158504	110953	26804	8
128	14	U.T Jammu & Kashmir	Ramban	72664	50865	12025	8
129	15	U.T Jammu & Kashmir	Kishtwar	56819	39773	5095	4
130	16	U.T Jammu & Kashmir	Reasi	151853	106297	8979	3
131	17	U.T Jammu & Kashmir	Badgam	81791	57253	89637	52
132	18	U.T Jammu & Kashmir	Ganderbal	39903	27932	46804	55
133	19	U.T Jammu & Kashmir	Pulwama	68025	47617	109042	76
134	20	U.T Jammu & Kashmir	Srinagar	26297	18407	34105	61
135	1	U.T Ladakh	Kargil	28917	20242	1782	3
136	2	U.T Ladakh	Leh	29585	20710	409	1
137	1	Jharkhand	Lohardaga	38335	26835	24853	31
138	2	Jharkhand	Ramgarh	41912	29338	23622	27
139	3	Jharkhand	Koderma	58617	41032	27953	23
140	4	Jharkhand	Ranchi	144841	101389	68776	23
141	5	Jharkhand	Dhanbad	118429	82900	43793	18
142	6	Jharkhand	Hazaribagh	162707	113895	53430	16
143	7	Jharkhand	Godda	166982	116887	54627	16
144	8	Jharkhand	Gharhwa	151985	106390	47926	15
145	9	Jharkhand	Bokaro	113645	79552	33906	14
146	10	Jharkhand	E. Singhbhoom	106285	74400	31480	14

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
185	8	Madya pradesh	Mandla	114457	80120	50654	21
184	7	Madya pradesh	Mandsaur	253382	177367	122171	23
183	6	Madya pradesh	Bhopal	103787	72651	55251	25
182	5	Madya pradesh	Bhind	160406	112284	87633	26
181	4	Madya pradesh	Betul	196183	137328	108491	26
180	3	Madya pradesh	Burhanpur	58256	40779	35634	29
179	2	Madya pradesh	Indore	181633	127143	129277	34
178	1	Madya pradesh	Sehore	176635	123645	132010	36
177	17	Karnataka	Yadgiri	180000	126000	20385	5
176	16	Karnataka	Kalburgi	235000	164500	56162	11
175	15	Karnataka	Raichur	238000	166600	64327	13
174	14	Karnataka	Kodagu	51000	35700	20490	19
173	13	Karnataka	Vijapura	199000	139300	86412	21
172	12	Karnataka	Bidar	176000	123200	81509	22
171	11	Karnataka	Uttarkannada	204000	142800	95703	22
170	10	Karnataka	Bellary	231000	161700	111073	23
169	9	Karnataka	Koppal	160000	112000	85104	25
168	8	Karnataka	Belgaum	846000	592200	481438	27
167	7	Karnataka	Shivamogga	361000	252700	215686	28
166	6	Karnataka	Chikkamagaluru	216000	151200	143731	32
165	5	Karnataka	Chitradurga	206000	144200	144693	33
164	4	Karnataka	Bagalakote	278000	194600	201591	35
163	3	Karnataka	Gadag	94000	65800	85770	43
162	2	Karnataka	Dharwad	123000	86100	112499	44
161	1	Karnataka	Davanagere	259000	181300	268030	49
160	24	Jharkhand	Simdega	89965	62976	4972	3
159	23	Jharkhand	W singhbhum	106334	74434	8458	4
158	22	Jharkhand	Khunti	119327	83529	10253	4
157	21	Jharkhand	Pakur	133088	93162	11713	4
156	20	Jharkhand	Gumla	136379	95465	16204	6
155	19	Jharkhand	Jamtara	95071	66550	14489	7
154	18	Jharkhand	Chatara	163816	114671	28149	8
153	17	Jharkhand	Dumka	180090	126063	34437	9
152	16	Jharkhand	Sahebganj	126121	88285	25205	10
151	15	Jharkhand	Latehar	85240	59668	17333	10
150	14	Jharkhand	Giridih	251108	175776	35579	10
149	13	Jharkhand	Palamu	226873	158811	59110	12
148	12	Jharkhand	Saraikela	59093	41365	17080	14
147	11	Jharkhand	Deoghar	184103	128872	54440	14

Con. S.No	S. N o	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
186	9	Madya pradesh	Anooppur	99730	69811	42269	20
187	10	Madya pradesh	Ujjain	286166	200316	115594	19
188	11	Madya pradesh	Ratlam	216070	151249	87068	19
189	12	Madya pradesh	Dewas	258277	180794	102191	19
190	13	Madya pradesh	Seoni	197674	138372	77687	19
191	14	Madya pradesh	Datiya	124050	86835	46216	18
192	15	Madya pradesh	Sidhi	174057	121840	63412	17
193	16	Madya pradesh	Shajapur	180747	126523	60599	16
194	17	Madya pradesh	Chhindwara	263687	184581	87982	16
195	18	Madya pradesh	Alirajpur	94065	65846	29666	15
196	19	Madya pradesh	Harda	88168	61718	27265	15
197	20	Madya pradesh	Panna	224672	157270	69444	15
198	21	Madya pradesh	Khandwa	166960	116872	51598	15
199	22	Madya pradesh	Jhabua	161195	112837	48870	14
200	23	Madya pradesh	Dhar	327189	229032	96885	14
201	24	Madya pradesh	Hosangabad	199439	139607	58075	14
202	25	Madya pradesh	Balaghat	198362	138853	56587	14
203	26	Madya pradesh	Narsinghpur	193332	135332	54708	13
204	27	Madya pradesh	Neemuch	180363	126254	50671	13
205	28	Madya pradesh	Tikamgarh	246599	172619	68909	13
206	29	Madya pradesh	Jabalpur	198187	138731	55128	13
207	30	Madya pradesh	Shahdol	153657	107560	39556	12
208	31	Madya pradesh	Dindori	97642	68349	24756	12
209	32	Madya pradesh	Murena	387760	271432	94450	12
210	33	Madya pradesh	Khargone	274999	192499	66473	12
211	34	Madya pradesh	Raisen	251221	175855	58396	11
212	35	Madya pradesh	Badwani	173055	121139	36616	10
213	36	Madya pradesh	Agar malva	110687	77481	23143	10
214	37	Madya pradesh	Guna	255217	178652	51715	10

S.No	Con.S No	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	% coverage A.I
215	38	Madya pradesh	Damoh	281021	196715	55516	9
216	39	Madya pradesh	Chhatarpur	243443	170410	47467	9
217	40	Madya pradesh	Rewa	414753	290327	78031	9
218	41	Madya pradesh	Singroli	184823	129376	33055	9
219	42	Madya pradesh	Umaria	108565	75996	19055	8
220	43	Madya pradesh	Katani	159412	111588	27490	8
221	44	Madya pradesh	Vidisha	266776	186743	45650	8
222	45	Madya pradesh	Satna	433171	303220	71910	8
223	46	Madya pradesh	Sagar	475590	332913	77184	8
224	47	Madya pradesh	Gwalior	236532	165572	36135	7
225	48	Madya pradesh	Ashoknagar	183452	128416	27458	7
226	49	Madya pradesh	Shivpuri	386910	270837	54726	7
227	50	Madya pradesh	Rajgarh	403387	282371	46646	6
228	51	Madya pradesh	Sheopurkala	184665	129266	16004	4
229	1	Maharashtra	Pune	562628	393840	573055	49
230	2	Maharashtra	Satara	397169	278018	395598	47
231	3	Maharashtra	Ahmednagar	853866	597706	830623	46
232	4	Maharashtra	Sangli	480934	336654	290605	29
233	5	Maharashtra	Solapur	622034	435424	358700	27
234	6	Maharashtra	Bhandara	118138	82697	67886	27
235	7	Maharashtra	Osmanabad	224863	157404	126741	27
236	8	Maharashtra	Nashik	491904	344333	255589	25
237	9	Maharashtra	Latur	242065	169446	116817	23
238	10	Maharashtra	Jalgaon	306369	214458	146272	23
239	11	Maharashtra	Aurangabad	240439	168307	110172	22
240	12	Maharashtra	Nagpur	197114	137980	69491	17
241	13	Maharashtra	Wardha	122194	85536	42169	16
242	14	Maharashtra	Hingoli	119689	83782	40906	16
243	15	Maharashtra	Akola	117176	82023	39004	16
244	16	Maharashtra	Sindhudurg	65860	46102	20471	15
245	17	Maharashtra	Beed	310092	217064	94688	15
246	18	Maharashtra	Parbhani	151905	106334	45159	14
247	19	Maharashtra	Jalna	148063	103644	43612	14
248	20	Maharashtra	Gondia	122292	85604	35373	14
249	21	Maharashtra	Amravati	244940	177458	69234	13
250	22	Maharashtra	Buldhana	214130	149891	60408	13

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 %
251	23	Maharashtra	Dhule	160487	112341	44888	13
252	24	Maharashtra	Ratnagiri	100858	70601	25843	12
253	25	Maharashtra	Raigad	98819	69173	23267	11
254	26	Maharashtra	Nanded	322058	225441	70376	10
255	27	Maharashtra	Chandrapur	159821	111875	29423	9
256	28	Maharashtra	Yeotmal	279331	195532	51422	9
257	29	Maharashtra	Thane	101764	71235	17713	8
258	30	Maharashtra	Nandurbar	129370	90559	22468	8
259	31	Maharashtra	Palghar	136083	95258	20565	7
260	32	Maharashtra	Washim	114896	80427	14129	6
261	33	Maharashtra	Gadchiroli	146321	102425	15313	5
262	1	Odisha	Baragarh	92830	64981	84875	44
263	2	Odisha	Jagatsinghpur	142550	99785	128613	43
264	3	Odisha	Sonepur	48114	33680	31365	31
265	4	Odisha	Bolangir	95586	66910	60598	30
266	5	Odisha	Cuttack	235178	164625	144867	29
267	6	Odisha	Sambalpur	71861	50302	43214	29
268	7	Odisha	Puri	211005	147704	105752	24
269	8	Odisha	Nayagarh	68056	47639	33924	24
270	9	Odisha	Nuapara	45430	31801	20832	22
271	10	Odisha	Angul	109544	76681	49924	22
272	11	Odisha	Jharsuguda	29715	20801	13216	21
273	12	Odisha	Kendrapara	169926	118948	68809	19
274	13	Odisha	Kalahandi	86019	60214	33453	19
275	14	Odisha	Balasore	260390	182273	97768	18
276	15	Odisha	Nawarangpur	98526	68968	35347	17
277	16	Odisha	Boudh	47281	33097	15228	15
278	17	Odisha	Keonjhar	158330	110831	48570	15
279	18	Odisha	Khurda	129676	90774	39412	14
280	19	Odisha	Jajpur	187844	131491	56395	14
281	20	Odisha	Mayurbhanj	189421	132595	56054	14
282	21	Odisha	Sundargarh	141176	98823	37149	13
283	22	Odisha	Rayagada	99863	69904	25584	12
284	23	Odisha	Deogarh	40699	28489	10338	12
285	24	Odisha	Dhenkanal	144643	101250	36610	12
286	25	Odisha	Bhadrak	191304	133913	47872	12
287	26	Odisha	Ganjam	219064	153345	50774	11
288	27	Odisha	Kandhamal	92821	64975	20939	11
289	28	Odisha	Koraput	149774	104842	29092	9
290	29	Odisha	Gajapati	48718	34102	6445	6
291	30	Odisha	Malkangiri	111240	77868	6552	3
292	1	Punjab	Gurdaspur	272343	190640	269584	47
293	2	Punjab	Hoshiarpur	411046	287732	260228	30

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 %
294	3	Punjab	Jalandhar	389558	272691	245529	30
295	4	Punjab	Kapurthala	195867	137107	114814	28
296	5	Punjab	Sbsnagar	170226	119158	99227	28
297	6	Punjab	Rupnagar	209214	146450	117513	27
298	7	Punjab	Bathinda	394154	275908	216921	26
299	8	Punjab	Sasnagar	186882	130817	102020	26
300	9	Punjab	Fatehgarh sahib	209804	146863	112294	25
301	10	Punjab	Ludhiana	672659	470861	348273	25
302	11	Punjab	Amritsar	537284	376099	264504	23
303	12	Punjab	Moga	336105	235274	165148	23
304	13	Punjab	Patiala	452435	316705	210029	22
305	14	Punjab	Faridkot	196993	137895	83523	20
306	15	Punjab	Barnala	235436	164805	98538	20
307	16	Punjab	Mukatsar	282522	197765	111705	19
308	17	Punjab	Sangrur	661650	463155	260596	19
309	18	Punjab	Mansa	332281	232597	130473	19
310	19	Punjab	Fazlika	387167	271017	130641	16
311	20	Punjab	Tarn taran	471285	329900	133185	13
312	21	Punjab	Ferozpur	387167	271017	108234	13
313	22	Punjab	Pathankot	272343	190640	71397	12
314	1	Rajasthan	Jaipur	942500	659750	504884	26
315	2	Rajasthan	Alwar	660202	462141	291673	21
316	3	Rajasthan	Dungarpur	241824	169277	105475	21
317	4	Rajasthan	Jhunjhunu	312326	218628	121426	19
318	5	Rajasthan	Sikar	462738	323917	175667	18
319	6	Rajasthan	Jodhpur	605592	423914	197978	16
320	7	Rajasthan	Banswara	338239	236767	107420	15
321	8	Rajasthan	Ajmer	467382	327167	145992	15
322	9	Rajasthan	Chittorgarh	403475	282433	123240	15
323	10	Rajasthan	Sriganganagar	533000	373100	154059	14
324	11	Rajasthan	Bhilwara	596123	417286	171785	14
325	12	Rajasthan	Karauli	302170	211519	82596	13
326	13	Rajasthan	Hanumangarh	435702	304991	110506	12
327	14	Rajasthan	Bharatpur	535160	374612	129634	12
328	15	Rajasthan	Dholpur	229757	160830	50492	10
329	16	Rajasthan	Dausa	339958	237971	73389	10
330	17	Rajasthan	Rajsamand	242200	169540	46799	9
331	18	Rajasthan	Udaipur	647665	453366	120062	9
332	19	Rajasthan	Tonk	326524	228567	58825	9
333	20	Rajasthan	Pali	345928	242150	61883	9
334	21	Rajasthan	Nagaur	571581	400107	94606	8
335	22	Rajasthan	Bundi	291175	203823	46927	8
336	23	Rajasthan	Churu	334128	233890	52997	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 %
337	24	Rajasthan	Sawaimadhopur	233315	163321	34980	7
338	25	Rajasthan	Pratapgarh	196093	137265	29325	7
339	26	Rajasthan	Sirohi	194873	136411	28578	7
340	27	Rajasthan	Baran	294856	206399	40006	6
341	28	Rajasthan	Jalore	376937	263856	48951	6
342	29	Rajasthan	Bikaner	554793	388355	68241	6
343	30	Rajasthan	Kota	249144	174401	26990	5
344	31	Rajasthan	Jhalawar	349885	244920	36925	5
345	32	Rajasthan	Barmer	523875	366713	28916	3
346	33	Rajasthan	Jaisalmer	227426	159198	4632	1
347	1	Tamil nadu	Tiruvannamallai	401566	281096	417204	49
348	2	Tamil nadu	Virudhunagar	150838	105587	156530	49
349	3	Tamil nadu	Viluppuram	497923	348546	501903	48
350	4	Tamil nadu	Kancheepuram	242429	169700	236650	46
351	5	Tamil nadu	Salem	448268	313788	435607	46
352	6	Tamil nadu	Ramanathapuram	53127	37189	50601	45
353	7	Tamil nadu	Thiruvallur	173244	121271	154845	43
354	8	Tamil nadu	Cuddalore	222160	155512	197509	42
355	9	Tamil nadu	The nilgiris	36381	25467	28511	37
356	10	Tamil nadu	Sivaganga	141589	99112	88757	30
357	11	Tamil nadu	Nagapattinam	182390	127673	90563	24
358	12	Tamil nadu	Pudukkottai	307709	215396	148907	23
359	13	Tamil nadu	Chennai	4990	3493	2410	23
360	1	Telangana	Yadadribhuvangiri	108409	75886	90797	40
361	2	Telangana	Karimnagar	83781	58647	64324	37
362	3	Telangana	Khammam	259099	181369	190599	35
363	4	Telangana	Warangal (rural)	73222	51255	51693	34
364	5	Telangana	Warangal (urban)	71300	49910	48859	33
365	6	Telangana	Rajannasircilla	47972	33580	31431	31
366	7	Telangana	Peddapalli	76212	53348	46297	29
367	8	Telangana	Sanga reddy	118541	82979	71741	29
368	9	Telangana	Nalgonda	238012	166608	142728	29
369	10	Telangana	Jagtial	59378	41565	34464	28
370	11	Telangana	Mahabubabad	83029	58120	44102	25
371	12	Telangana	Suryapet	212197	148538	106357	24
372	13	Telangana	Jangaon	81359	56951	40185	24
373	14	Telangana	Medak	112921	79045	54057	23
374	15	Telangana	Bhadradrikothagudem	115165	80616	54106	22
375	16	Telangana	Siddipet	185386	129770	86200	22
376	17	Telangana	Mulugu	56951	39866	25123	21
377	18	Telangana	Wanaparthy	58514	40960	25363	21
378	19	Telangana	Jayashankarbhupalpally	81915	57341	34852	20
379	20	Telangana	Nagarkurnool	112923	79046	43746	18

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 %
380	21	Telangana	Medchal	57207	40045	21569	18
381	22	Telangana	Jogulambagadwal	97405	68184	35059	17
382	23	Telangana	Rangareddy	180144	126101	62527	17
383	24	Telangana	Narayanapet	80156	56109	26534	16
384	25	Telangana	Vikarabad	106105	74274	34999	16
385	26	Telangana	Mahabubnagar	87080	60956	28053	15
386	27	Telangana	Nizamabad	178172	124720	51154	14
387	28	Telangana	Kamareddy	186038	130227	48362	12
388	29	Telangana	Adilabad	74047	51833	15637	10
389	30	Telangana	Komarambheem	60600	42420	11651	9
390	31	Telangana	Mancherial	112561	78793	16302	7
391	32	Telangana	Nirmal	259946	181962	15625	3
392	1	Uttar pradesh	Rae Bareli	330937	231656	270334	39
393	2	Uttar pradesh	Gorakhpur	288139	201697	231194	38
394	3	Uttar pradesh	Chandauli	222869	156008	177353	38
395	4	Uttar pradesh	Kushinagar	226619	158633	179921	38
396	5	Uttar pradesh	Amethi	292109	204476	222467	36
397	6	Uttar pradesh	Faizabad	311021	217715	228957	35
398	7	Uttar pradesh	Baliya	271065	189746	198905	35
399	8	Uttar pradesh	Sant Kabir Nagar	104028	72820	75811	35
400	9	Uttar pradesh	Lucknow	288424	201897	209198	35
401	10	Uttar pradesh	Maharajganj	123862	86703	89835	35
402	11	Uttar pradesh	Sitapur	410357	287250	293979	34
403	12	Uttar pradesh	Hardoi	485230	339661	345013	34
404	13	Uttar pradesh	Barabanki	404982	283487	287374	34
405	14	Uttar pradesh	Pilibhit	194908	136436	138104	34
406	15	Uttar pradesh	Muzaffarnagar	358134	250694	247005	33
407	16	Uttar pradesh	Etawah	210581	147407	145228	33
408	17	Uttar pradesh	Saharanpur	449778	314845	308179	33
409	18	Uttar pradesh	Eta	337467	236227	231221	33
410	19	Uttar pradesh	Auriya	166456	116519	113655	33
411	20	Uttar pradesh	Hathras	244123	170886	166185	32
412	21	Uttar pradesh	Shamli	183780	128646	124422	32

Con. S.No	S. N o	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
413	22	Uttar pradesh	Baghpat	246055	172239	166574	32
414	23	Uttar pradesh	Hapur	192826	134978	129745	32
415	24	Uttar pradesh	Meerut	415198	290639	277360	32
416	25	Uttar pradesh	Ghaziabad	161041	112729	107557	32
417	26	Uttar pradesh	Ambedkar Nagar	249037	174326	165085	32
418	27	Uttar pradesh	Bulandshahr	772262	540583	507993	31
419	28	Uttar pradesh	Bahraich	410242	287169	269849	31
420	29	Uttar pradesh	Gautam Buddha Nagar	176930	123851	115873	31
421	30	Uttar pradesh	Mainpuri	270945	189662	177095	31
422	31	Uttar pradesh	Siddharthnagar	196964	137875	126856	31
423	32	Uttar pradesh	Basti	233004	163103	148898	30
424	33	Uttar pradesh	Sambhal	356796	249757	223053	30
425	34	Uttar pradesh	Kanpur Dehat	272185	190530	167753	29
426	35	Uttar pradesh	Kaushambi	179741	125819	109472	29
427	36	Uttar pradesh	Amroha	366611	256628	222929	29
428	37	Uttar pradesh	Badanu	497506	348254	302332	29
429	38	Uttar pradesh	Farrukhabad	199093	139365	118536	28
430	39	Uttar pradesh	Jaunpur	477807	334465	283700	28
431	40	Uttar pradesh	Mau	170319	119223	101024	28
432	41	Uttar pradesh	Allahabad	573850	401695	338341	28
433	42	Uttar pradesh	Deoria	216301	151411	126765	28
434	43	Uttar pradesh	Azamgarh	500621	350435	284823	27
435	44	Uttar pradesh	Gonda	410044	287031	230446	27
436	45	Uttar pradesh	Varanasi	317483	222238	174062	26
437	46	Uttar pradesh	Unnao	402168	281518	217592	26
438	47	Uttar pradesh	Bijnor	416685	291680	222714	25
439	48	Uttar pradesh	Firozabad	312362	218653	165169	25
440	49	Uttar pradesh	Agra	599250	419475	309100	25
441	50	Uttar pradesh	Kannauj	217214	152050	109850	24

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 %
442	51	Uttar pradesh	Moradabad	288128	201690	145153	24
443	52	Uttar pradesh	Balrampur	184633	129243	92209	24
444	53	Uttar pradesh	Rampur	278717	195102	137782	24
445	54	Uttar pradesh	Aligarh	633972	443780	311174	23
446	55	Uttar pradesh	Kanpur Nagar	315171	220620	154551	23
447	56	Uttar pradesh	Sultanpur	333047	233133	162414	23
448	57	Uttar pradesh	Fatehpur	459675	321773	217400	23
449	58	Uttar pradesh	Mathura	503219	352253	237468	22
450	59	Uttar pradesh	Shravasti	135441	94809	61956	22
451	60	Uttar pradesh	Mirzapur	298631	209042	132659	21
452	61	Uttar pradesh	Pratapgarh	359534	251674	158825	21
453	62	Uttar pradesh	Bhadohi	179609	125726	79016	21
454	63	Uttar pradesh	Lakimpurkhiri	527008	368906	227459	21
455	64	Uttar pradesh	Kasganj	427823	299476	184473	21
456	65	Uttar pradesh	Ghazipur	435763	305034	171910	19
457	66	Uttar pradesh	Shahjahanpur	346482	242537	134284	18
458	67	Uttar pradesh	Sonbhadra	278821	195175	98795	17
459	68	Uttar pradesh	Bareilly	418300	292810	145672	17
460	69	Uttar pradesh	Jaloun	241538	169077	67983	13
461	70	Uttar pradesh	Chitrakoot	288561	201993	67859	11
462	71	Uttar pradesh	Hamirpur	228057	159640	45986	10
463	72	Uttar pradesh	Jhansi	299916	209941	48192	8
464	73	Uttar pradesh	Banda	308247	215773	43096	7
465	74	Uttar pradesh	Lalitpur	358665	251066	35433	5
466	75	Uttar pradesh	Mahoba	167196	117037	12942	4
467	1	Uttrakhand	Haridwar	194297	136008	144211	35
468	2	Uttrakhand	Dehradun	113958	79771	84137	35
469	3	Uttrakhand	Nainital	122296	85607	77486	30
470	4	Uttrakhand	Champawat	50210	35147	21641	21
471	5	Uttrakhand	Bageshwar	59888	41922	24173	19
472	6	Uttrakhand	Uttarkashi	57988	40592	22268	18

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 %
473	7	Uttrakhand	Chamoli	82920	58044	28090	16
474	8	Uttrakhand	Almora	125575	87903	38352	15
475	9	Uttrakhand	Rudraprayag	56477	39534	14180	12
476	10	Uttrakhand	Pithoragarh	112875	79013	25919	11
477	11	Uttrakhand	Tehri	92387	64671	20636	11
478	12	Uttrakhand	Pauri	155408	108786	27141	8
479	13	Uttrakhand	Udham singh nagar	153682	107577	164647	51
480	1	West Bengal	Murshidabad	472226	330558	462807	47
481	2	West Bengal	Malda	246259	172381	204590	40
482	3	West Bengal	Coochbehar	317982	222587	236519	35
433	4	West Bengal	Birbhum	300733	210513	214354	34
484	5	West Bengal	Hooghly	434546	304182	299284	33
485	6	West Bengal	Dakshin Dinajpur	159402	111581	97694	29
486	7	West Bengal	Jalpaiguri	207209	145046	117686	27
487	8	West Bengal	Purba Burdwan	638039	446627	351934	26
488	9	West Bengal	Alipurduar	139156	97409	76439	26
489	10	West Bengal	Howrah	166823	116776	88959	25
490	11	West Bengal	Paschim Burdwan	85537	59876	44675	25
491	12	West Bengal	Paschim Midnapur	714715	500301	345358	23
492	13	West Bengal	North 24 Pgs	418309	292816	201851	23
493	14	West Bengal	Siliguri (Div.)	59477	41634	27834	22
494	15	West Bengal	Bankura	520388	364272	221245	20
495	16	West Bengal	Jhargram	132748	92924	49098	18
496	17	West Bengal	South 24 Pgs	413948	289764	141512	16
497	18	West Bengal	Purulia	237519	166263	77068	15
498	19	West Bengal	Purba Midnapur	599406	419584	164824	13
499	20	West Bengal	Kalimpong	27891	19524	2544	4
500	21	West Bengal	Darjeeling (GTA)	29316	40045	2438	2
501	1	Arunachal Pradesh	Papumpare	15888	11121.6	1562	5
502	2	Arunachal Pradesh	Namsai	2793	1955	219	4
503	3	Arunachal Pradesh	East Siang	14115	9880	231	1
504	4	Arunachal Pradesh	West Kameing	10516	7361	172	1
505	5	Arunachal Pradesh	West Siang	8646	6052	129	1
506	6	Arunachal Pradesh	Anjaw	-	-	-	-
507	7	Arunachal Pradesh	Changlang	-	-	-	-
508	8	Arunachal Pradesh	East Kameng	-	-	-	-
509	9	Arunachal Pradesh	kra-daadi	-	-	-	-
510	10	Arunachal Pradesh	KurungKumey	-	-	-	-

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 %
511	11	Arunachal Pradesh	Lohit	-	-	-	-
512	12	Arunachal Pradesh	Long Ding	-	-	-	-
513	13	Arunachal Pradesh	Lower Dibang Valley	-	-	-	-
514	14	Arunachal Pradesh	Lower Subansiri	-	-	-	-
515	15	Arunachal Pradesh	Siang	-	-	-	-
516	16	Arunachal Pradesh	Tawang	-	-	-	-
517	17	Arunachal Pradesh	Tirap	-	-	-	-
518	18	Arunachal Pradesh	Upper Dibang valley	-	-	-	-
519	19	Arunachal Pradesh	Upper Siang	-	-	-	-
520	20	Arunachal Pradesh	Upper Subansiri	-	-	-	-
521	1	Assam	Barpeta	200358	140251	50480	12
522	2	Assam	Bongaigaon	93006	65104	19818	10
523	3	Assam	Nalbari	133872	93711	27097	10
524	4	Assam	Kamrup	271808	190265	38594	7
525	5	Assam	Darrang	155508	108855	20376	6
526	6	Assam	Nagaon	321817	225272	40841	6
527	7	Assam	Morigaon	134538	94177	14033	5
528	8	Assam	Dhubri	179744	125821	15884	4
529	9	Assam	Golaghat	160247	112173	12892	4
530	10	Assam	Tinsukia	140818	98572	11152	4
531	11	Assam	Sonitpur	393101	275171	30060	4
532	12	Assam	Jorhat	208295	145806	15250	3
533	13	Assam	Hailakandi	67990	47593	4651	3
534	14	Assam	Cachar	153931	107751	9351	3
535	15	Assam	Kokrajhar	134275	93993	7572	3
536	16	Assam	Chirang	93313	65319	5141	3
537	17	Assam	Karimganj	115954	81168	5837	2
538	18	Assam	Dibrugarh	163505	114454	7872	2
539	19	Assam	Goalpara	114070	79849	5156	2
540	20	Assam	Sivasagar	161160	112812	6409	2
541	21	Assam	Udalguri	128919	90243	4562	2
542	22	Assam	Lakhimpur	198398	138879	6839	2
543	23	Assam	Baksa	193547	135483	6095	1
544	24	Assam	Karbianglong(east)	121492	85044	3433	1
545	25	Assam	South Salmara - mankachar	10956	7669	92	0
546	26	Assam	Dhemaji	149496	104647	970	0
547	27	Assam	Biswanath	-	-	-	-
548	28	Assam	Charaideo	-	-	-	-

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 %
549	29	Assam	Dima Hasao(NC hills)	-	-	-	-
550	30	Assam	Hojai	-	-	-	-
551	31	Assam	Kamrup Metro	-	-	-	-
552	32	Assam	Majuli	-	-	-	-
553	33	Assam	Karbianglong(West)	-	-	-	-
554	1	Manipur	Imphal-West	7797	5458	4606	28
555	2	Manipur	Bishnupur	8754	6128	1798	10
556	3	Manipur	Imphal-East	10675	7473	1525	7
557	4	Manipur	Thoubal	17949	12564	2511	7
558	5	Manipur	Senapati	22596	15817	768	2
559	6	Manipur	Churachandpur	13819	9673	280	1
560	7	Manipur	Chandel	9436	6605	146	1
561	8	Manipur	Ukhrul	13939	9757.3	98	0
562	9	Manipur	Tamenglong	8450	5915	0	0
563	1	Meghalaya	East Khasi Hills	30000	21000	9308	15
564	2	Meghalaya	West Garo Hills	147458	103220	2808	1
565	3	Meghalaya	East Jaintia Hills	33337	23335	317	0
566	4	Meghalaya	South Garo Hills	25090	17563	26	0
567	5	Meghalaya	West Khasi Hills	39225	27457	32	0
568	6	Meghalaya	East Garo Hills	46813	32769	26	0
569	7	Meghalaya	Ribhoi	13253	9277	9308	15
570	8	Meghalaya	North Garo Hills	-	-	-	-
571	9	Meghalaya	South West Garo Hills	-	-	-	-
572	10	Meghalaya	South West Khasi Hills	-	-	-	-
573	11	Meghalaya	West Jaintia Hills	-	-	-	-
574	1	Mizoram	Aizawl	6911	4838	23	0
575	2	Mizoram	Serchhip	2374	1662	6	0
576	3	Mizoram	Lunglei	4576	3203	11	0
577	4	Mizoram	Kolasib	6278	4395	12	0
578	5	Mizoram	Mamit	2711	1898	3	0
579	6	Mizoram	champhai	8237	5766	9	0
580	7	Mizoram	Siaha	3182	2227	3	0
581	8	Mizoram	Lawngtlai	3999	2799	3	0
582	1	Nagaland	Kiphire	3808	2666	6	0
583	2	Nagaland	Dimapur	-	-	-	-
584	3	Nagaland	Kohima	-	-	-	-
585	4	Nagaland	Longleng	-	-	-	-
586	5	Nagaland	Mokokchung	-	-	-	-
587	6	Nagaland	Mon	-	-	-	-
588	7	Nagaland	Peren	-	-	-	-
589	8	Nagaland	Phek	-	-	-	-
590	9	Nagaland	Tuensang	-	-	-	-
591	10	Nagaland	Wokha	-	-	-	-

Con. S.No	S. N o	State	Name of the District	Br. Populn	Animals available for A.I	A.I done during 2017-18	A.I coverage %
592	11	Nagaland	Zunheboto	-	-	-	-
593	1	Sikkim	East	20697	14487	8451	19
594	2	Sikkim	West	18037	12625	5313	14
595	3	Sikkim	South	15823	11076	3008	9
596	4	Sikkim	North	5480	3836	149	1
597	1	Tripura	Gomati	46138	32297	7672	8
598	2	Tripura	Sipahijala	49255	34479	7512	7
599	3	Tripura	West Tripura	48531	33972	6845	7
600	4	Tripura	North	33073	23151	3485	5
601	5	Tripura	Khowai	41943	29360	4281	5
602	6	Tripura	South Tripura	55950	39165	5510	5
603	7	Tripura	Unokoti	25187	17631	2137	4
604	8	Tripura	Dhalai	38248	26774	3063	4

MINIMUM STANDARD PROTOCOL PRESCRIBED BY GOI

Breed	Dam's Lactation yield (Kgs)		Fat%
	First	Best	
Holstein Friesian	7000	10000	3.5
Jersey	5000	6000	5.0
Sahiwal	2400	3000	4.0
Red Sindhi	2000	2500	4.5
Gir	2400	3000	4.5
Kankrej	2000	2500	4.5
Tharparkar	2000	2500	4.0
Hariana	1600	2000	4.0
Rathi	1600	2000	4.0
Ongole	1100	1600	4.0
Deoni	800	1000	4.0
Khillar	380	500	4.0
Dangi	400	530	4.0
Amritmahal	400	500	4.0
HF Cross- F2	5000	6000	4.0
Jersey Cross- F2	3500	4500	4.5
Sunandini	2500	3000	3.5
Murrah	2400	3000	7.0
Mehsana	2400	3000	7.0

Nili Ravi	2400	3000	7.0
Jaffrabadi	2800	3500	8.0
Surti	1600	2000	7.0
Banni	2400	3000	7.0
Bhadawari	1300	1600	8.0
Pandharpuri	1300	1600	7.0

The standard for Dam's lactation yield for FI cross bulls will be the same as that of respective indigenous bull dam i.e. Gir, Sahiwal, Kankrej, Red Sindhi, etc.

For Breeds not mentioned in above table, concerned state government may notify the min. Dam's lactation details and Breed code.

For imported bulls and embryos, the standards for import of germplasm as prescribed in the "Guidelines for export I import of bovine germplasm" issued and amended from time -to -time by DADF. Ministry of Agriculture and Farmers Welfare, GOI shall be applicable

EXPENDITURE TO BE INCURRED UNDER NAIP II

S.No	States/Uts	No. of districts	No. of Villages/district	No.of animals/village	Target no.of animals	No.of A.I to be performed	No.of semen doses required (3 A.I/animal + 10% extra)	Cost of semen doses incl. consumables, transportation and Storage @ Rs.25/dose (Rs.in Lakh)	Incentives to A.I. tech @ Rs. 50/A.I (Rs.in Lakh)	Incentives to A.I. tech @ Rs. 100/Calf born (Rs.in Lakh)	2 Data entry operators on consolidated basis @ Rs. 10000/- per month for 10 months (Rs.in Lakh) per district	Contingency grant @ Rs 1000 per village for wall writing, Banners etc. and monitoring of progress (Rs.in Lakh)	Contingency grant @ Rs. 50,000/- per district for publicity, storage, transportation of semen doses & AI consumables (Rs.in Lakh)	Parentage testing for 1% of the calves born in the district @ Rs.100/calf (Rs.in Lakh)	Awareness programme at States level @ Rs. 1 lakh/ District (Rs.in Lakh)	Total expen (Rs. in Lakh)	Funds released (Rs.in lakh) under NAIP I	Fund utilised (Rs.in lakh)	Unspent available under NAIP I (Rs.in lakh)
1	Andhra Pradesh	9	500	100	450000	1350000	1485000	371.25	675	450	18	45	4.5	45	9	1617.75	439.74	342.73	97.01
2	Bihar	38	500	100	1900000	5700000	6270000	1567.5	2850	1900	76	190	19	190	38	6830.50	1230.95	207.93	1023.02
3	Chattisgarh	27	500	100	1350000	4050000	4455000	1113.75	2025	1350	54	135	13.5	135	27	4853.25	1019.78	204.47	815.31
4	Gujarat	21	500	100	1050000	3150000	3465000	866.25	1575	1050	42	105	10.5	105	21	3774.75	942.88	399.30	543.58
5	Goa	2	500	100	100000	300000	330000	82.5	150	100	4	10	1	10	2	359.50	97.72	0.67	97.05
6	Haryana	5	500	100	250000	750000	825000	206.25	375	250	10	25	2.5	25	5	898.75	205.44	31.45	173.99
7	Himachal Pradesh	12	500	100	600000	1800000	1980000	495	900	600	24	60	6	60	12	2157.00	519.42	1.54	517.88
8	UT Jammu & Kashmir& Ladakh	22	500	100	1100000	3300000	3630000	907.5	1650	1100	44	110	11	110	22	3954.50	791.99	157.67	634.32
9	Jharkhand	24	500	100	1200000	3600000	3960000	990	1800	1200	48	120	12	120	24	4314.00	540.46	415.75	124.71
10	Karnataka	17	500	100	850000	2550000	2805000	701.25	1275	850	34	85	8.5	85	17	3055.75	756.47	324.70	431.77
11	Madhya Pradesh	51	500	100	2550000	7650000	8415000	2103.75	3825	2550	102	255	25.5	255	51	9167.25	2155.86	1046.31	1109.55
12	Maharashtra	33	500	100	1650000	4950000	5445000	1361.25	2475	1650	66	165	16.5	165	33	5931.75	1479.71	232.14	1247.56

1 3	Odisha	30	500	100	15000 00	45000 00	4950 000	1237.5	2250	1500	60	150	15	150	30	5392. 50	1090. 33	579. 00	511.3 3
1 4	Punjab	22	500	100	11000 00	33000 00	3630 000	907.5	1650	1100	44	110	11	110	22	3954. 50	986.3 3	439. 31	547.0 2
1 5	Rajasthan	33	500	100	16500 00	49500 00	5445 000	1361.25	2475	1650	66	165	16.5	165	33	5931. 75	1386. 15	83.0 7	1303. 08
1 6	Tamil Nadu	13	500	100	65000 0	19500 00	2145 000	536.25	975	650	26	65	6.5	65	13	2336. 75	536.0 8	536. 08	0.00
1 7	Telangana	32	500	100	16000 00	48000 00	5280 000	1320	2400	1600	64	160	16	160	32	5752. 00	1522. 60	826. 40	696.2 0
1 8	Uttar Pradesh	75	500	100	37500 00	11250 000	1.2E +07	3093.75	5625	3750	150	375	37.5	375	75	1348 1.25	3334. 94	903. 74	2431. 20
1 9	Uttarakhan d	13	500	100	65000 0	19500 00	2145 000	536.25	975	650	26	65	6.5	65	13	2336. 75	508.7 7	381. 81	126.9 6
2 0	West Bengal	21	500	100	10500 00	31500 00	3465 000	866.25	1575	1050	42	105	10.5	105	21	3774. 75	1026. 06	0.00	1026. 06
	Total	500	100 00	2000	25000 000	75000 000	8.3E +07	20625	37500	25000	1000	2500	250	2500	500	8987 5.00	2057 1.7	7114 .1	1345 7.61

For NER States , Fund has already been released under NER A.I Program

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

36

7	* Number of Calvings	
8	*Pregnancy Status	☐ Yes ☐ No

b   Owner Details

1	* Village Name		5	* Mobile number
2	*Hamlet Name		6	*Aadhar No
3	* Owner Name			
4	* Owner Gender	☐ Male ☐ Female		

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

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.

3. If the data is not uploaded by the A.I technician himself, main copy will be forwarded for data entry at centralised location(Taluka/district). Lower copy will be office copy 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.