UPDATED ACTION PLAN ON IMPLEMENTATION OF NATIONWIDE ARTIFICIAL INSEMINATION PROGRAMME – PHASE IV (NAIP IV) IN DISTRICTS WITH LESS THAN 50% A.I COVERAGE

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Contents

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1. BACKGROUND:

"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.

For enhancing the AI coverage, Nationwide Artificial Insemination Programme (NAIP) Phase I, II and III have been implemented during 2019-20, 2020-21 and 2021-22 in 604 districts having less than 50% A.I coverage. Under these programmes, a total of 3.48 Crore bovines had been inseminated with semen of high genetic merit bulls. Over 2.27 Crore farmers got benefitted through these programme.

Owing to the success of the programmes, it has been decided to continue the campaign mode NAIP Phase IV in districts with less than 50% AI coverage including Aspirational districts, covering all breeds of bovines through free of cost A.I at farmers doorstep.

2. RATIONALE:

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.

Hence it has been decided to implement a campaign mode A.I programme in districts with less than 50% AI coverage which includes 112 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 under AI programme thereby raising demand for AI in general.

2.3. The programme will be implemented with the following objectives.

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

3. AREA OF OPERATION AND DURATION OF THE PROJECT:

The Programme will be implemented in 555 identified districts having less than 50% A.I coverage from 1st August 2022 to 31st May 2023 over a period of 10 months covering around 3 Crore breedable bovine female populations (List of 555 districts attached at annexure –I). In case of Hilly States, North Eastern States and Union Territories (Himachal Pradesh, Uttarakhand, Union Territories of Jammu and Kashmir and Ladakh), the programme has been extended to all villages and all districts.

4. SELECTION OF VILLAGES:

All breedable bovines available in all the villages of the district shall be covered through free Artificial Insemination service thereby, ensuring complete saturation of the whole district under the programme. Special emphasis to be given to those villages, which were not covered so far under NAIP Phase I, II & III.

Selection of districts is based on the A.I Coverage data made available by the States during 2020-21. All breeds of cattle and buffaloes will be covered under this programme. List of 555 Districts with less than 50% AI coverage including 112 aspirational districts are given at Annexure-I. All the activities of the project will be completed over a period of 10 months. Monitoring of the project and follow-up of all the animals covered under the programme shall be continued till calves born.

5. FUNDING PATTERN:

The component will be implemented as per the funding pattern approved under RGM that is 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. Other agencies involved in A.I delivery may also be included under the programme. Funds have been 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 Animal Husbandry Department
Participating Implementing Agencies (PIA's)	Other agencies having a role in Bovine Development

For better implementation of the scheme, the scheme shall also be included under District Development Coordination and Monitoring Committee (DISHA).

7. ACTION PLAN: (1ˢᵗ August 2022 to 31ˢᵗ May 2023):

During the period all eligible breedable bovines available in the chosen district shall be covered through free artificial insemination services.

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

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) with minimum lactation yield above 10,000 kg in case of HF and 7,000 kg in case of Jersey

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.

Non descript buffaloes should be upgraded with the semen of high yielding buffalo bulls like Murrah/Nili Ravi/ Mehsani/Jaffarabadi with minimum lactation yield above

3000 kgs as per the State breeding policy and **descript buffaloes** may be upgraded through selective breeding using HGM bulls of the particular breed.

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.

Though 2.5 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. PROCUREMENT OF BREEDING INPUTS:

The semen doses 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. Cost of A.I inclusive of semen dose, consumables and storage is Rs. 40/- A.I under NAIP–IV. States are permitted to procure 5% of additional semen doses of their requirement instead of 10%.

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' graded Semen Stations accredited by Central Monitoring Unit (CMU) only. **MSP of different breeds notified by GOI is attached at Annexure –III.**

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.40/- as GoI contribution on semen cost apart from the admissible cost under sanctioned programme.

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.

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.

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.

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 AUID and their data shall be uploaded on INAPH data base. After AI, the animal shall be followed up for pregnancy diagnosis till calf born and all the events shall be recorded by the AI technician on the data base.

11. PARENTAGE TESTING:

Parentage testing shall be done @ 10 calves/district for of the calves born under NAIP IV @ testing cost of Rs. 3400/- (testing has to be done for both dam and calf @ Rs.1700/- as testing fee for each sample of dam and calf).

12. DATA UPLOADING ON INAPH:

The A.I technicians who have been given tablets under Pashu Sanjivani, (used for 20th Livestock 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 Government A.I technicians.

12.1   Procedure for uploading of data:

(i) The technician has to open the INAPH LITE application, on INAPH database.

(ii) He has to enter his user ID and password (provided by NDDB to SIA/State AHD).

(iii)   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)

(iv)   After filling up animal registration, he has to fill up details of the owner of the animal.

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

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

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

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 database.

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

13. DATA ENTRY/ 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, that is Repeat A.I, Pregnancy diagnosis after a period of 3 months of A.I and calves born details after gestation period (280 days in case of cows and 310 days in case of buffaloes) 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.

Regarding data entry, all District Veterinary Officers are allowed to hire two Data Entry Operators (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 12 months is ear marked for data entry operator /data entry at district level. Besides uploading the progress on the portal, DEO's shall check up all the INAPH entries and ensure all entries have been done as per format.

14. MEDIA AND PUBLICITY:

At village level: Display board as **'NAIP Village'** should be placed in every village indicating that all the eligible female bovines (cattle and Buffalo) in the village are covered under NAIP through free AI services at farmers doorstep. Intense publicity to be given in villages so far not covered under NAIP.

Banners should be displayed in prominent places and also at 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.

At district level: A fund of Rs.5 Lakhs per district has been made available for publicity at village and district level (wall writings, banners), 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
- Regarding the information printed on the semen straw -bull No., Breed, MSP etc
- Advantages of high yielding semen for enhancing the productivity.
- Management of cryo containers and liquid nitrogen
- Expected date of pregnancy diagnosis
- Creating awareness among farmers

(a)   To ask for the empty straw from the A.I technicians after A.I is performed, to know about the details of semen used for A.I and about the bulls.

(b) Economical Importance of attaining early maturity in heifers through feeding balanced diet (ration balancing).

(c)   On adoption of "One calf every year" concept for sustainable income.

(d)   Prevention of calf mortality by feeding colostrum immediately after birth, ideally within

one hour, for maximum absorption of antibodies in the colostrum.

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.

At State level: For creating awareness about the programme at State level, Rs.5.00 lakh has been 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:

District level: At the district level, scheme is being monitored by the District Monitoring committee headed by Collector/District Magistrate, Member secretary / DAHO and the Implementing agency, 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.

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.

Central Monitoring Committee: Central Monitoring Committee has been 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. 18000/-month on short time basis for one year for compiling of data.

16. CALL CENTRE AT DAHD

Call centre created under NADCP programme will be utilized 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.

Incentive for Tagging: An incentive of Rs.2.50 per animal will be given for tagging under NADCP.

Incentive for A.I and Calf born - Incentive will be made available to the private AI technician/ MAITRIs (Not getting salary by Government or Co-operatives) @ Rs 50/ per AI and Rs. 100/- per calf born. All incentives for private A.I technicians/ MAITRIs to be disbursed strictly based on the data uploaded on INAPH and verification of the data by the concerned District Animal Husbandry Officer (DAHO). No incentives shall be paid to government AI technicians or technicians drawing salary from Milk Federations engaged in the programme.

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.

In addition, incentives based on the conception rate shall be provided to A.I technicians (both Government and Private AIT's) @ Rs 200/- for achieving conception at first AI and Rs 100/- if conception is achieved at 2nd AI. No incentive shall be provided if animal conceives after 2nd AI.

18. FINANCIAL IMPLICATION:

Detailed State wise expenditure to be incurred is attached at Annexure IV for implementing the Nationwide AI programme in Bovines in 555 districts including aspirational districts with less than 50 % A.I coverage in from (1st August 2022 to 31st May 2023).

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 IV, 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 7.5 Crore number of AI's would result into birth of 3.00 Cr superior calves.

- Due to this campaign mode approach, 1.35 Crore superior female calves will be produced which will yield 16.2 MMT of milk /annum after 3 years. Cows and buffaloes worth Rs. 54000 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. 55258 crores.

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

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

NAIP Phase IV District wise List   (in Lakh)

Con. S.No.	State	S. No.	District	Breedable populn as per 20 LC	70% of breedable popln	No.of AI done during 2020-21	AI coverage (%)	Target No. of bovines NAIP IV
1	Andhra Pradesh	1	Ananthapuramu	363105	254174	313225	41	206729
2	Andhra Pradesh	2	East godavari	588928	412250	363313	29	239787
3	Andhra Pradesh	3	Guntur	586963	410874	516425	42	340841
4	Andhra Pradesh	4	Kadapa	314415	220091	197344	30	130247
5	Andhra Pradesh	5	Kurnool	320856	224599	116960	17	77194
6	Andhra Pradesh	6	Nellore	405445	283812	369	0.04	244
7	Andhra Pradesh	7	Prakasam (ongole)	540095	378067	345253	30	227867
8	Andhra Pradesh	8	Srikakulam	340435	238305	251634	35	166078
9	Andhra Pradesh	9	West godavari	450684	315479	395610	42	261103
10	Bihar	1	Araria	502205.5	351544	47289	4	28373
11	Bihar	2	Arwal	93678.5	65575	35419	18	21251
12	Bihar	3	Aurangabad	398160.5	278712	70714	8	42428
13	Bihar	4	Banka	423790	296653	67356	8	40414
14	Bihar	5	Begusarai	337916	236541	261786	37	157072
15	Bihar	6	Bhagalpur	527192.5	369035	83114	8	49868
16	Bihar	7	Bhojpur	343143	240200	178687	25	107212
17	Bihar	8	Buxar	234219	163953	98174	20	58904
18	Bihar	9	Darbhanga	373368	261358	105760	13	63456
19	Bihar	10	Gaya	631771	442240	107632	8	64579
20	Bihar	11	Gopalganj	198057	138640	142616	34	85570
21	Bihar	12	Jamui	402917	282042	24702	3	14821
22	Bihar	13	Jehanabad	127484.5	89239	47989	18	28793
23	Bihar	14	Kaimur (bhabua)	313759	219631	66303	10	39782
24	Bihar	15	Katihar	439317	307522	55099	6	33059
25	Bihar	16	Khagaria	232863	163004	131208	27	78725
26	Bihar	17	Kishanganj	299654.5	209758	19493	3	11696
27	Bihar	18	Lakhisarai	119412.5	83589	68570	27	41142
28	Bihar	19	Madhepura	409701.5	286791	53742	6	32245
29	Bihar	20	Madhubani	582074	407452	98865	8	59319
30	Bihar	21	Munger	138628	97040	55813	19	33488
31	Bihar	22	Muzaffarpur	416734.5	291714	245581	28	147349
32	Bihar	23	Nalanda	285146	199602	91851	15	55111
33	Bihar	24	Nawada	282539	197777	44775	8	26865

34	Bihar	25	Pashchim champaran	352149.5	246505	99329	13	59597
35	Bihar	26	Patna	504163	352914	156829	15	94097
36	Bihar	27	Purbi champaran	434282.5	303998	133734	15	80240
37	Bihar	28	Purnia	555643.5	388950	67523	6	40514
38	Bihar	29	Rohtas	430642	301449	94375	10	56625
39	Bihar	30	Saharsa	338779.5	237146	45078	6	27047
40	Bihar	31	Samastipur	459964	321975	323419	33	194051
41	Bihar	32	Saran	386886	270820	85265	10	51159
42	Bihar	33	Sheikhpura	77671	54370	14062	9	8437
43	Bihar	34	Sheohar	61132.5	42793	56471	44	33883
44	Bihar	35	Sitamarhi	302191	211534	84224	13	50534
45	Bihar	36	Siwan	315786	221050	82522	12	49513
46	Bihar	37	Supaul	531984	372389	38363	3	23018
47	Bihar	38	Vaishali	270138.5	189097	144743	26	86846
48	Chhatisgarh	1	Korea	123315	86321	18088	7	11576
49	Chhatisgarh	2	Sarguja	92293	64605	27123	14	17359
50	Chhatisgarh	3	Jashpur	98203	68742	21636	10	13847
51	Chhatisgarh	4	Raigarh	125674	87972	68888	26	44088
52	Chhatisgarh	5	Korba	128252	89776	23613	9	15112
53	Chhatisgarh	6	Janjir-champa	235904	165133	35818	7	22924
54	Chhatisgarh	7	Bilaspur	257303	180112	55973	10	35823
55	Chhatisgarh	8	Kabirdham	161766	113236	12877	4	8241
56	Chhatisgarh	9	Rajnandgaon	269198	188439	32350	6	20704
57	Chhatisgarh	10	Durg	164484	115139	22242	6	14235
58	Chhatisgarh	11	Raipur	183106	128174	28413	7	18184
59	Chhatisgarh	12	Mahasamund	117391	82174	34047	14	21790
60	Chhatisgarh	13	Dhamtari	111285	77900	28373	12	18159
61	Chhatisgarh	14	Kanker	102844	71991	15979	7	10227
62	Chhatisgarh	15	Bastar	71548	50084	13278	9	8498
63	Chhatisgarh	16	Dantewada	57408	40186	1549	1	991
64	Chhatisgarh	17	Narayanpur	74002	51801	1228	1	786
65	Chhatisgarh	18	Bijapur	94843	66390	2140	1	1370
66	Chhatisgarh	19	Baloda bazar	229656	160759	26275	5	16816
67	Chhatisgarh	20	Gariyabandh	96530	67571	13682	7	8756
68	Chhatisgarh	21	Mungeli	124786	87350	19436	7	12439
69	Chhatisgarh	22	Balod	139541	97679	32486	11	20791
70	Chhatisgarh	23	Bemetara	209843	146890	12427	3	7953
71	Chhatisgarh	24	Kondagaon	77498	54249	7952	5	5089
72	Chhatisgarh	25	Sukma	94838	66387	3664	2	2345
73	Chhatisgarh	26	Balrampur	138712	97098	15603	5	9986
74	Chhatisgarh	27	Surajpur	95165	66616	17257	9	11044
75	Goa	1	North Goa	33239	23267	19586	28	12927
76	Goa	2	South Goa	36134	25294	12622	17	8331
77	Gujarat	1	Ahmedabad	331587	232111	160535	23	109164
78	Gujarat	2	Amreli	189338	132537	103761	26	70557
79	Gujarat	3	Bharuch	133058	93141	109475	39	74443

80	Gujarat	4	Bhavnagar	264331	185032	160826	29	109362
81	Gujarat	5	Botad	123630	86541	39806	15	27068
82	Gujarat	6	Chhotaudepur	206340	144438	130939	30	89039
83	Gujarat	7	Dahod	392732	274912	238617	29	162260
84	Gujarat	8	Devbhumi Dwarka	225910	158137	31082	7	21136
85	Gujarat	9	Gir somnath	200530	140371	107630	26	73188
86	Gujarat	10	Jamnagar	142651	99856	39036	13	26544
87	Gujarat	11	Junagadh	189450	132615	154739	39	105223
88	Gujarat	12	Kachchh	531036	371725	61628	6	41907
89	Gujarat	13	Morbi	169386	118570	49064	14	33364
90	Gujarat	14	Narmada	90125	63088	81227	43	55234
91	Gujarat	15	Panchmahal	344858	241401	350113	48	238077
92	Gujarat	16	Patan	325672	227970	286401	42	194753
93	Gujarat	17	Porbandar	119466	83626	56355	22	38321
94	Gujarat	18	Rajkot	319709	223796	170475	25	115923
95	Gujarat	19	Surat	266119	186283	260819	47	177357
96	Gujarat	20	Surendranagar	355112	248578	85159	11	57908
97	Gujarat	21	Vadodara	269495	188647	224248	40	152489
98	Haryana	1	Palwal	169210	118447	173324	49	50000
99	Haryana	2	Sonepat	214120	149884	186569	41	50000
100	Himachal pradesh	1	Bilaspur	74485	52140	44718	29	30408
101	Himachal pradesh	2	Chamba	121714	85200	38860	15	26425
102	Himachal pradesh	3	Hamirpur	68003	47602	45334	32	30827
103	Himachal pradesh	4	Kangra	223538	156477	153528	33	104399
104	Himachal pradesh	5	Kinnaur	13933	9753	6489	22	4413
105	Himachal pradesh	6	Kullu	90626	63438	48398	25	32911
106	Himachal pradesh	7	Lahul spiti	7470	5229	2516	16	1711
107	Himachal pradesh	8	Mandi	224508	157156	144253	31	98092
108	Himachal pradesh	9	Shimla	131636	92145	81166	29	55193
109	Himachal pradesh	10	Sirmour	134245	93972	63219	22	42989
110	Himachal pradesh	11	Solan	111366	77956	72241	31	49124
111	Himachal pradesh	12	Una	89413	62589	69201	37	47057
112	Jammu	1	Doda	86987	60891	24973	14	15000
113	Jammu	2	Jammu	166890	116823	14521	4	60000
114	Jammu	3	Kathua	116325	81428	49740	20	30000
115	Jammu	4	Kishtwar	58951	41266	11932	10	10000
116	Jammu	5	Poonch	90000	63000	17739	9	25000
117	Jammu	6	Rajouri	153500	107450	28026	9	20000
118	Jammu	7	Ramban	53632	37542	11818	10	10000
119	Jammu	8	Reasi	76999	53899	11874	7	15000
120	Jammu	9	Samba	49022	34315	43060	42	25000

121	Jammu	10	Udhampur	120187	84131	30615	12	20000
122	Jharkhand	1	Bokaro	125998	88199	33633	13	45000
123	Jharkhand	2	Chatara	197444	138211	30952	7	47000
124	Jharkhand	3	Deoghar	248300	173810	34128	7	50000
125	Jharkhand	4	Dhanbad	139685	97780	44654	15	43160
126	Jharkhand	5	Dumka	226256	158379	41179	9	46000
127	Jharkhand	6	E. Singhbhoom	115440	80808	32062	13	38500
128	Jharkhand	7	Gharhwa	257801	180461	37381	7	67433
129	Jharkhand	8	Giridih	317572	222300	42649	6	65000
130	Jharkhand	9	Godda	281439	197007	36182	6	60000
131	Jharkhand	10	Gumla	163061	114143	28245	8	38600
132	Jharkhand	11	Hazaribagh	191288	133902	38605	10	50000
133	Jharkhand	12	Jamtara	129251	90476	31425	12	30420
134	Jharkhand	13	Khunti	79770	55839	25618	15	20000
135	Jharkhand	14	Koderma	61055	42739	28173	22	27000
136	Jharkhand	15	Latehar	107623	75336	29200	13	40000
137	Jharkhand	16	Lohardaga	46643	32650	28758	29	27000
138	Jharkhand	17	Pakur	140374	98262	30304	10	31000
139	Jharkhand	18	Palamu	286184	200329	40652	7	57056
140	Jharkhand	19	Ramgarh	36464	25525	25536	33	29000
141	Jharkhand	20	Ranchi	215427	150799	70742	16	53832
142	Jharkhand	21	Sahebganj	115428	80800	33289	14	48000
143	Jharkhand	22	Saraikela	69286	48500	27500	19	36000
144	Jharkhand	23	Simdega	106635	74645	22635	10	28000
145	Jharkhand	24	W singhbhum	101307	70915	26991	13	22000
146	Karnataka	1	Bagalkote	229163.4	160414	191791	40	130418
147	Karnataka	2	Bidar	174945	122462	79497	22	54058
148	Karnataka	3	Chikmagalur	192375.6	134663	161623	40	109904
149	Karnataka	4	Chitradurga	198519.6	138964	160181	38	108923
150	Karnataka	5	Dharwad	137625.6	96338	123358	43	83883
151	Karnataka	6	Gadag	113889	79722	84259	35	57296
152	Karnataka	7	Gulbarga	390310.2	273217	58715	7	39926
153	Karnataka	8	Kodagu	45323.4	31726	21051	22	14315
154	Karnataka	9	Koppala	175183.2	122628	72879	20	49558
155	Karnataka	10	Raichur	211765.8	148236	52056	12	35398
156	Karnataka	11	Shimoga	371932.2	260353	221765	28	150800
157	Karnataka	12	Uttara kannada	238470	166929	89243	18	60685
158	Karnataka	13	Vijayapur	224253.6	156978	106274	23	72266
159	Karnataka	14	Yadgir	171880.2	120316	22296	6	15161
160	Kashmir	1	Anantnag	123343	86340	91377	35	34000
161	Kashmir	2	Bandipora	50876	35613	31218	29	16000
162	Kashmir	3	Baramulla	102742	71919	67487	31	32000
163	Kashmir	4	Budgam	81791	57254	70522	41	24000
164	Kashmir	5	Ganderbal	39903	27932	40721	49	16000
165	Kashmir	6	Kulgam	71173	49821	63217	42	20000
166	Kashmir	7	Kupwara	113390	79373	39302	17	31000

167	Kashmir	8	Pulwama	138854	97198	98484	34	26000
168	Kashmir	9	Shopian	47709	33396	36892	37	18000
169	Kashmir	10	Srinagar	62108	43476	28346	22	13000
170	Ladakh	1	Leh	22449	15714	754	2	528
171	Ladakh	2	Kargil	33785	23650	1023	1	716
172	Madhya Pradesh	1	Agar malwa	166346	116442	31306	9	21038
173	Madhya Pradesh	2	Alirajpur	109452	76616	34507	15	23189
174	Madhya Pradesh	3	Anuppur	129514	90660	51686	19	34733
175	Madhya Pradesh	4	Ashoknagar	202379	141665	32349	8	21739
176	Madhya Pradesh	5	Balaghat	249896	174927	68795	13	46230
177	Madhya Pradesh	6	Barwani	193357	135350	35954	9	24161
178	Madhya Pradesh	7	Betul	277959	194571	118415	20	79575
179	Madhya Pradesh	8	Bhind	293806	205664	90586	15	60874
180	Madhya Pradesh	9	Bhopal	154549	108184	66594	21	44751
181	Madhya Pradesh	10	Burhanpur	73685	51580	37049	24	24897
182	Madhya Pradesh	11	Chhatarpur	350926	245648	57746	8	38805
183	Madhya Pradesh	12	Chhindwara	324109	226876	95135	14	63931
184	Madhya Pradesh	13	Damoh	307499	215249	48057	7	32294
185	Madhya Pradesh	14	Datia	211061	147743	41552	9	27923
186	Madhya Pradesh	15	Dewas	335405	234784	112097	16	75329
187	Madhya Pradesh	16	Dhar	406932	284852	113910	13	76548
188	Madhya Pradesh	17	Dindori	109347	76543	32235	14	21662
189	Madhya Pradesh	18	East nimar	196975	137883	54742	13	36787
190	Madhya Pradesh	19	Guna	320712	224498	52388	8	35205
191	Madhya Pradesh	20	Gwalior	229466	160626	46428	10	31200
192	Madhya Pradesh	21	Harda	114553	80187	31050	13	20866
193	Madhya Pradesh	22	Hoshangabad	230332	161232	62584	13	42056
194	Madhya Pradesh	23	Indore	329889	230922	140413	20	94358
195	Madhya Pradesh	24	Jabalpur	211456	148019	65708	15	44156
196	Madhya Pradesh	25	Jhabua	209745	146822	52851	12	35516
197	Madhya Pradesh	26	Katni	190087	133061	34101	9	22916
198	Madhya Pradesh	27	Khargone	348491	243944	66665	9	44799
199	Madhya Pradesh	28	Mandla	151494	106046	50209	16	33740

200	Madhya Pradesh	29	Mandsaur	296769	207738	124647	20	83763
201	Madhya Pradesh	30	Morena	409213	286449	105001	12	70561
202	Madhya Pradesh	31	Narsinghpur	189991	132994	65673	16	44132
203	Madhya Pradesh	32	Neemuch	221604	155123	48382	10	32513
204	Madhya Pradesh	33	Panna	243147	170203	53037	10	35641
205	Madhya Pradesh	34	Raisen	341610	239127	62302	9	41867
206	Madhya Pradesh	35	Rajgarh	379405	265584	60956	8	40962
207	Madhya Pradesh	36	Ratlam	267848	187494	89275	16	59993
208	Madhya Pradesh	37	Rewa	459628	321740	93410	10	62772
209	Madhya Pradesh	38	Sagar	503757	352630	81482	8	54756
210	Madhya Pradesh	39	Satna	412449	288714	74335	9	49953
211	Madhya Pradesh	40	Sehore	394652	276256	128418	15	86297
212	Madhya Pradesh	41	Seoni	199800	139860	73021	17	49070
213	Madhya Pradesh	42	Shahdol	183705	128594	47619	12	32000
214	Madhya Pradesh	43	Shajapur	217931	152552	57587	13	38698
215	Madhya Pradesh	44	Sheopur	227631	159342	25106	5	16871
216	Madhya Pradesh	45	Shivpuri	373899	261729	62038	8	41690
217	Madhya Pradesh	46	Sidhi	240951	168666	68113	13	45772
218	Madhya Pradesh	47	Singrauli	185507	129855	36201	9	24327
219	Madhya Pradesh	48	Tikamgarh	307345	215142	77882	12	52337
220	Madhya Pradesh	49	Ujjain	372758	260931	128270	16	86197
221	Madhya Pradesh	50	Umaria	126020	88214	27897	11	18747
222	Madhya Pradesh	51	Vidisha	261436	183005	54861	10	36867
223	Maharashtra	1	Thane	86461	60523	14572	8	9909
224	Maharashtra	2	Palghar	102197	71538	12636	6	8592
225	Maharashtra	3	Raigad	94329	66030	20901	11	14213
226	Maharashtra	4	Ratnagiri	86452	60516	22327	12	15182
227	Maharashtra	5	Sindhudurg	52931	37052	20555	18	13977
228	Maharashtra	6	Nashik	486957	340870	210103	21	142870
229	Maharashtra	7	Dhule	163741	114619	26630	8	18108
230	Maharashtra	8	Nandurbar	116660	81662	16510	7	11227
231	Maharashtra	9	Jalgaon	358250	250775	122157	16	83067
232	Maharashtra	10	Ahemadnagar	934468	654128	582686	30	396226
233	Maharashtra	11	Pune	694983	486488	410353	28	279040
234	Maharashtra	12	Satara	401010	280707	347024	41	235976

235	Maharashtra	13	Sangli	496766	347736	169529	16	115280
236	Maharashtra	14	Solapur	715810	501067	169966	11	115577
237	Maharashtra	15	Aurangabad	252876	177013	73165	14	49752
238	Maharashtra	16	Jalna	163238	114267	37128	11	25247
239	Maharashtra	17	Parbhani	136135	95295	29273	10	19906
240	Maharashtra	18	Beed	303240	212268	74406	12	50596
241	Maharashtra	19	Latur	229469	160628	84173	17	57238
242	Maharashtra	20	Osmanabad	271556	190089	103512	18	70388
243	Maharashtra	21	Nanded	294213	205949	67764	11	46080
244	Maharashtra	22	Hingoli	106172	74320	26821	12	18238
245	Maharashtra	23	Amravati	234618	164233	45002	9	30601
246	Maharashtra	24	Akola	110051	77036	25176	11	17120
247	Maharashtra	25	Washim	99227	69459	15376	7	10456
248	Maharashtra	26	Buldhana	236749	165724	47710	10	32443
249	Maharashtra	27	Yeotmal	250183	175128	40815	8	27754
250	Maharashtra	28	Nagpur	195104	136573	77916	19	52983
251	Maharashtra	29	Wardha	122395	85677	41238	16	28042
252	Maharashtra	30	Bhandara	136543	95580	68937	24	46877
253	Maharashtra	31	Gondia	130064	91045	39300	14	26724
254	Maharashtra	32	Chandrapur	128960	90272	31460	12	21393
255	Maharashtra	33	Gadchiroli	141263	98884	14683	5	9984
256	Odisha	1	Angul	97653	68357	53197	26	48279
257	Odisha	2	Balesore	250261	175183	94940	18	100000
258	Odisha	3	Bargarh	78330	54831	72938	44	53000
259	Odisha	4	Bhadrak	202610	141827	57168	13	80000
260	Odisha	5	Bolangir	84669	59268	65195	37	53000
261	Odisha	6	Boudh	34052	23836	22576	32	15563
262	Odisha	7	Cuttack	259337	181536	140709	26	110000
263	Odisha	8	Deogarh	28166	19716	14801	25	9522
264	Odisha	9	Dhenkanal	152754	106928	39545	12	49339
265	Odisha	10	Gajapati	32271	22590	18272	27	16631
266	Odisha	11	Ganjam	188924	132247	65054	16	82000
267	Odisha	12	Jajpur	201780	141246	58426	14	79144
268	Odisha	13	Jharsuguda	28701	20091	13569	23	15000
269	Odisha	14	Kalahandi	74930	52451	37672	24	37000
270	Odisha	15	Kandhamal	45536	31875	38898	41	22812
271	Odisha	16	Kendrapada	161124	112787	73121	22	73641
272	Odisha	17	Keonjhar	144960	101472	61985	20	60896
273	Odisha	18	Khordha	116967	81877	32789	13	47784
274	Odisha	19	Koraput	127008	88906	31840	12	48225
275	Odisha	20	Malkangiri	87880	61516	14459	8	26000
276	Odisha	21	Mayurbhanj	165846	116092	59580	17	77775
277	Odisha	22	Nabarangpur	62828	43980	34267	26	32000
278	Odisha	23	Nayagarh	71688	50182	37279	25	35440
279	Odisha	24	Nuapada	30144	21101	19407	31	16871
280	Odisha	25	Puri	179478	125635	94341	25	104907

281	Odisha	26	Raygada	69015	48311	30481	21	34285
282	Odisha	27	Sambalpur	64382	45067	42787	32	35425
283	Odisha	28	Sonepur	38040	26628	28460	36	18762
284	Odisha	29	Sundargarh	92842	64989	35957	18	41699
285	Rajasthan	1	Ajmer	905436	633805	148817	8	89290
286	Rajasthan	2	Bhilwara	1182695	827887	211778	9	127067
287	Rajasthan	3	Tonk	609188	426432	67592	5	40555
288	Rajasthan	4	Nagaur	1119333	783533	128534	5	77120
289	Rajasthan	5	Bikaner	1402980	982086	63775	2	38265
290	Rajasthan	6	Churu	715926	501148	71398	5	42839
291	Rajasthan	7	Sriganganagar	836827	585779	103386	6	62032
292	Rajasthan	8	Hanumangarh	846467	592527	127450	7	76470
293	Rajasthan	9	Jodhpur	1386879	970815	159023	5	95414
294	Rajasthan	10	Barmer	1127926	789548	32904	1	19742
295	Rajasthan	11	Jaisalmer	411686	288180	9418	1	5651
296	Rajasthan	12	Jalore	887085	620960	42032	2	25219
297	Rajasthan	13	Pali	690678	483475	66037	5	39622
298	Rajasthan	14	Sirohi	416108	291276	35159	4	21095
299	Rajasthan	15	Jaipur	1905670	1333969	543278	14	325967
300	Rajasthan	16	Dausa	677985	474590	129717	9	77830
301	Rajasthan	17	Alwar	1386609	970626	304576	10	182746
302	Rajasthan	18	Jhunjhunu	616206	431344	131745	10	79047
303	Rajasthan	19	Sikar	872339	610637	278821	15	167293
304	Rajasthan	20	Kota	456971	319880	60759	6	36455
305	Rajasthan	21	Baran	564120	394884	56235	5	33741
306	Rajasthan	22	Bundi	518541	362979	74317	7	44590
307	Rajasthan	23	Jhalawar	595040	416528	32505	3	19503
308	Rajasthan	24	Udaipur	1428624	1000037	131647	4	78988
309	Rajasthan	25	Chittorgarh	852269	596588	108448	6	65069
310	Rajasthan	26	Dungarpur	760758	532531	72088	5	43253
311	Rajasthan	27	Banswara	1018634	713044	130464	6	78278
312	Rajasthan	28	Pratapgarh	581874	407312	48124	4	28874
313	Rajasthan	29	Rajsamand	479003	335302	59245	6	35547
314	Rajasthan	30	Bharatpur	965724	676007	244458	12	146675
315	Rajasthan	31	Dholpur	440167	308117	76606	8	45964
316	Rajasthan	32	Karauli	591777	414244	126465	10	75879
317	Rajasthan	33	Sawaimadhopur	379419	265593	65187	8	39112
318	Tamil Nadu	1	Chennai	4990	3493	1934	18	1354
319	Tamil Nadu	2	Cuddalore	222160	155512	147475	32	103233
320	Tamil Nadu	3	Kancheepuram	242429	169700	233571	46	163500
321	Tamil Nadu	4	Nagapattinam	182390	127673	78716	21	55101
322	Tamil Nadu	5	Pudukottai	307709	215396	149186	23	104430
323	Tamil Nadu	6	Ramanathapuram	53127	37189	43917	39	30742
324	Tamil Nadu	7	Salem	448268	313788	557286	59	390100
325	Tamil Nadu	8	Sivagangai	141589	99112	72441	24	50709
326	Tamil Nadu	9	The nilgiris	36381	25467	17927	23	12549

327	Tamil Nadu	10	Thiruvallur	234811	164368	100082	20	70057
328	Tamil Nadu	11	Thiruvannamalai	224812	157368	345240	73	241668
329	Tamil Nadu	12	Villupuram	497923	348546	352722	34	246905
330	Tamil Nadu	13	Virudhunagar	150838	105587	154727	49	108309
331	Telangana	1	Adilabad	129857	90900	25115	9	8215
332	Telangana	2	Bhadradri kothagudem	173985	121790	78845	22	21235
333	Telangana	3	Jagtial	75954	53168	44242	28	15190
334	Telangana	4	Jangaon	102659	71861	59935	28	11315
335	Telangana	5	Jayashankar bhupalpally	54583	38208	33779	29	7595
336	Telangana	6	Jogulamba gadwal	54339	38037	52544	46	13950
337	Telangana	7	Kamareddy	135914	95140	51364	18	16585
338	Telangana	8	Karimnagar	84928	59450	74201	42	15965
339	Telangana	9	Khammam	259686	181780	228748	42	50670
340	Telangana	10	Komaram bheem	75184	52629	20164	13	3720
341	Telangana	11	Mahabubabad	114246	79972	60346	25	14415
342	Telangana	12	Mahabubnagar	89687	62781	50538	27	13950
343	Telangana	13	Mancherial	93316	65321	22053	11	9145
344	Telangana	14	Medak	135957	95170	63245	22	13795
345	Telangana	15	Medchal	49177	34424	20419	20	7595
346	Telangana	16	Mulugu	50386	35270	31558	30	7130
347	Telangana	17	Nagarkurnool	144380	101066	55558	18	17050
348	Telangana	18	Nalgonda	233003	163102	125853	26	35015
349	Telangana	19	Narayanapet	77988	54592	37610	23	9455
350	Telangana	20	Nirmal	125986	88190	24065	9	10695
351	Telangana	21	Nizamabad	145481	101837	64832	21	16275
352	Telangana	22	Peddapalli	61762	43233	52510	40	10695
353	Telangana	23	Rajanna sircilla	53435	37405	41720	37	6820
354	Telangana	24	Ranga reddy	219474	153632	85599	19	22475
355	Telangana	25	Sanga reddy	161771	113240	69328	20	17825
356	Telangana	26	Siddipet	137569	96298	85331	30	20305
357	Telangana	27	Suryapet	180044	126031	139421	37	26040
358	Telangana	28	Vikarabad	108680	76076	46411	20	18600
359	Telangana	29	Wanaparthy	68771	48140	41607	29	10230
360	Telangana	30	Warangal (rural)	78673	55071	64577	39	16120
361	Telangana	31	Warangal (urban)	47195	33037	42142	43	10385
362	Telangana	32	Yadadri bhuvangiri	126359	88451	109432	41	21545
363	Uttarakhand	1	Almora	104562	73193	41797	19	29258
364	Uttarakhand	2	Bageshwar	50485	35340	25415	24	17791
365	Uttarakhand	3	Chamoli	81065	56746	29276	17	20493
366	Uttarakhand	4	Champawat	44725	31308	23173	25	16221
367	Uttarakhand	5	Dehradun	125629	87940	86870	33	60809
368	Uttarakhand	6	Haridwar	199162	139413	165829	40	116080
369	Uttarakhand	7	Nainital	125250	87675	95061	36	66543
370	Uttarakhand	8	Pauri	132476	92733	28552	10	19986
371	Uttarakhand	9	Pithoragarh	101836	71285	24275	11	16993
372	Uttarakhand	10	Rudraprayag	49984	34989	19575	19	13703

373	Uttarakhand	11	Tehri	83115	58181	21784	12	15249
374	Uttarakhand	12	Uttarkashi	51325	35928	18747	17	13123
375	Uttar Pradesh	1	Meerut	389046	272332	275321	34	176205
376	Uttar Pradesh	2	Ghaziabad	189585	132710	117105	29	74947
377	Uttar Pradesh	3	Bulandshahr	593263	415284	522893	42	334652
378	Uttar Pradesh	4	Gautam budh nagar	196898	137829	124787	30	79864
379	Uttar Pradesh	5	Baghpat	234335	164035	167117	34	106955
380	Uttar Pradesh	6	Hapur	179066	125346	151075	40	96688
381	Uttar Pradesh	7	Muzaffarnagar	347856	243499	267208	37	171013
382	Uttar Pradesh	8	Saharanpur	330006	231004	263581	38	168692
383	Uttar Pradesh	9	Shamli	191681	134177	134912	34	86344
384	Uttar Pradesh	10	Agra	603439	422407	367246	29	235037
385	Uttar Pradesh	11	Mathura	341328	238930	240997	34	154238
386	Uttar Pradesh	12	Firozabad	383019	268113	176333	22	112853
387	Uttar Pradesh	13	Mainpuri	322306	225614	166870	25	106797
388	Uttar Pradesh	14	Aligarh	559087	391361	357896	30	229053
389	Uttar Pradesh	15	Etah	343761	240633	275637	38	176408
390	Uttar Pradesh	16	Kasganj	265336	185735	218386	39	139767
391	Uttar Pradesh	17	Hathras	265353	185747	188083	34	120373
392	Uttar Pradesh	18	Moradabad	244616	171231	141381	28	90484
393	Uttar Pradesh	19	Rampur	201634	141144	169542	40	108507
394	Uttar Pradesh	20	Bijnor	401443	281010	226984	27	145270
395	Uttar Pradesh	21	Amroha	298959	209271	259493	41	166076
396	Uttar Pradesh	22	Sambhal	373767	261637	288901	37	184897
397	Uttar Pradesh	23	Bareilly	363164	254215	306250	40	196000
398	Uttar Pradesh	24	Badaun	558617	391032	360491	31	230714
399	Uttar Pradesh	25	Shahjahanpur	312733	218913	144743	22	92636
400	Uttar Pradesh	26	Kanpur nagar	302755	211929	156672	25	100270
401	Uttar Pradesh	27	Kanpur dehat	324627	227239	208630	31	133523
402	Uttar Pradesh	28	Etawah	225271	157690	173313	37	110920
403	Uttar Pradesh	29	Farrukhabad	253996	177797	111325	21	71248
404	Uttar Pradesh	30	Auraiya	214915	150441	121352	27	77665
405	Uttar Pradesh	31	Kannauj	234376	164063	126902	26	81217
406	Uttar Pradesh	32	Prayagraj	504956	353469	341224	32	218383
407	Uttar Pradesh	33	Fatehpur	351083	245758	260051	35	166433
408	Uttar Pradesh	34	Pratapgarh	337249	236074	164467	23	105259
409	Uttar Pradesh	35	Kaushambi	194285	136000	106021	26	67853
410	Uttar Pradesh	36	Gorakhpur	234825	164378	242073	49	154927
411	Uttar Pradesh	37	Maharajganj	129954	90968	91720	34	58701
412	Uttar Pradesh	38	Deoria	182874	128012	182744	48	116956
413	Uttar Pradesh	39	Basti	168182	117727	162198	46	103807
414	Uttar Pradesh	40	Sant kabir nagar	108135	75695	71284	31	45622
415	Uttar Pradesh	41	Balrampur	125986	88190	103368	39	66156
416	Uttar Pradesh	42	Gonda	303336	212335	168796	26	108029
417	Uttar Pradesh	43	Shravasti	222803	155962	74730	16	47827
418	Uttar Pradesh	44	Amethi	208722	146105	171682	39	109876

419	Uttar Pradesh	45	Ambedkar nagar	206495	144547	153440	35	98202
420	Uttar Pradesh	46	Sultanpur	232655	162859	168108	34	107589
421	Uttar Pradesh	47	Sitapur	349144	244401	298471	41	191021
422	Uttar Pradesh	48	Unnao	346017	242212	246066	34	157482
423	Uttar Pradesh	49	Lakhimpur kheri	410089	287062	226204	26	144771
424	Uttar Pradesh	50	Rae bareli	276073	193251	281773	49	180335
425	Uttar Pradesh	51	Hardoi	451703	316192	376967	40	241259
426	Uttar Pradesh	52	Jhansi	188612	132028	59571	15	38125
427	Uttar Pradesh	53	Jalaun	208008	145606	60486	14	38711
428	Uttar Pradesh	54	Lalitpur	163685	114580	38298	11	24511
429	Uttar Pradesh	55	Chitrakoot	148847	104193	87899	28	56255
430	Uttar Pradesh	56	Banda	221576	155103	49441	11	31642
431	Uttar Pradesh	57	Hamirpur	142500	99750	55018	18	35212
432	Uttar Pradesh	58	Mahoba	93261	65283	23821	12	15245
433	Uttar Pradesh	59	Varanasi	236684	165679	244538	49	156504
434	Uttar Pradesh	60	Jaunpur	419204	293443	301800	34	193152
435	Uttar Pradesh	61	Ghazipur	309400	216580	175369	27	112236
436	Uttar Pradesh	62	Mirzapur	274916	192441	141987	25	90872
437	Uttar Pradesh	63	Bhadohi	120796	84557	73908	29	47301
438	Uttar Pradesh	64	Sonbhadra	113011	79108	111202	47	71169
439	Uttar Pradesh	65	Azamgarh	348231	243762	273115	37	174794
440	Uttar Pradesh	66	Mau	139940	97958	109166	37	69866
441	Uttar Pradesh	67	Baliya	244374	171062	224174	44	143471
442	West Bengal	1	Coochbehar	494157	345910	267581	26	187307
443	West Bengal	2	Jalpaiguri	286116	200281	133651	22	93556
444	West Bengal	3	Alipurduar	210771	147540	83427	19	58399
445	West Bengal	4	Darjeeling	81890	57323	26143	15	18300
446	West Bengal	5	Kalimpong	21976	15383	2680	6	1876
447	West Bengal	6	Dinajpur dakshin	191887	134321	102113	25	71479
448	West Bengal	7	Maldah	370211	259148	223765	29	156636
449	West Bengal	8	24 paraganas north	270141	189099	217618	38	152333
450	West Bengal	9	24 paraganas south	381471	267030	171328	21	119930
451	West Bengal	10	Howrah	117171	82020	93310	38	65317
452	West Bengal	11	Hooghly	430950	301665	292056	32	204439
453	West Bengal	12	Medinipur east	451097	315768	176362	19	123453
454	West Bengal	13	Medinipur west	712655	498859	350385	23	245270
455	West Bengal	14	Jhargram	184112	128878	53491	14	37444
456	West Bengal	15	Bankura	554985	388490	230052	20	161036
457	West Bengal	16	Purulia	228833	160183	87308	18	61116
458	West Bengal	17	Purba bardhaman	687987	481591	375902	26	263131
459	West Bengal	18	Paschim bardhaman	128768	90138	42757	16	29930
460	West Bengal	19	Birbhum	427687	299381	231608	26	162126
461	Arunachal Pradesh	1	Changlang	10670	7469	2	0	1
462	Arunachal Pradesh	2	Dibang valley	138	97	2	1	1
463	Arunachal Pradesh	3	East kameng	9938	6957	0	0	0

464	Arunachal Pradesh	4	East siang	14564	10195	172	1	103
465	Arunachal Pradesh	5	Lohit	28526	19968	262	0	157
466	Arunachal Pradesh	6	Lower dibang valley	5864	4105	11	0	7
467	Arunachal Pradesh	7	Lower subansiri	15270	10689	48	0	29
468	Arunachal Pradesh	8	Namsai	3558	2491	176	2	106
469	Arunachal Pradesh	9	Papum-pare	12351	8646	346	1	208
470	Arunachal Pradesh	10	Siang	4297	3008	0	0	0
471	Arunachal Pradesh	11	Tawang	7395	5177	0	0	0
472	Arunachal Pradesh	12	Tirap	865	606	0	0	0
473	Arunachal Pradesh	13	West kameng	6239	4367	52	0	31
474	Arunachal Pradesh	14	West siang	4720	3304	0	0	0
475	Assam	1	Baksa	130891	91624	9608	3	4535
476	Assam	2	Barpeta	190033	133023	62270	16	29516
477	Assam	3	Biswanath	119431	83602	7723	3	3661
478	Assam	4	Bongaigaon	94784	66349	28948	15	13721
479	Assam	5	Cachar	152433	106703	11266	4	5340
480	Assam	6	Chirang	74482	52137	5760	4	2730
481	Assam	7	Darrang	169239	118467	19108	5	9057
482	Assam	8	Dhemaji	137535	96275	1255	0	595
483	Assam	9	Dhubri	137729	96410	15584	5	7387
484	Assam	10	Dibrugarh	98160	68712	8296	4	3932
485	Assam	11	Dima hasao	13742	9619	1514	5	718
486	Assam	12	Goalpara	112394	78676	10051	4	4764
487	Assam	13	Golaghat	262861	184003	9743	2	4618
488	Assam	14	Hailakandi	58336	40835	9265	8	4392
489	Assam	15	Hojai	111700	78190	22429	10	10631
490	Assam	16	Jorhat	162834	113984	12496	4	5923
491	Assam	17	Kamrup	204348	143044	32896	8	15593
492	Assam	18	Kamrup (M)	55108	38576	18522	16	8779
493	Assam	19	Karbi anglong	101490	71043	4779	2	2265
494	Assam	20	Karimganj	117129	81990	4989	2	2365
495	Assam	21	Kokrajhar	107969	75578	7710	3	3655
496	Assam	22	Lakhimpur	166173	116321	7143	2	3386
497	Assam	23	Majuli	37596	26317	438	1	208
498	Assam	24	Morigaon	124559	87191	25098	10	11896
499	Assam	25	Nagaon	249989	174992	66497	13	31520
500	Assam	26	Nalbari	113974	79782	27845	12	13199
501	Assam	27	Sibsagar	104879	73415	7790	4	3692
502	Assam	28	Sonitpur	184782	129347	31688	8	15020
503	Assam	29	Soraideu	27823	19476	2243	4	1063
504	Assam	30	South salmara	47590	33313	3518	4	1668

505	Assam	31	Tinsukia	119277	83494	10868	4	5151
506	Assam	32	Udalguri	126956	88869	6041	2	2863
507	Assam	33	West karbi anglong	39920	27944	277	0	131
508	Manipur	1	Bishnupur	2095	1467	2095	48	1190
509	Manipur	2	Chandel	83	58	83	48	47
510	Manipur	3	Churachandpur	461	323	461	48	262
511	Manipur	4	Imphal east	1560	1092	1560	48	886
512	Manipur	5	Imphal west	5052	3536	5052	48	2870
513	Manipur	6	Senapati	807	565	807	48	458
514	Manipur	7	Tamenglong	40	28	40	48	23
515	Manipur	8	Thoubal	3553	2487	3553	48	2018
516	Manipur	9	Ukhrul	217	152	217	48	123
517	Meghalaya	1	East Jaintia hills	34048	23834	0	0	50
518	Meghalaya	2	East khasi hills	50768	35538	8159	8	4243
519	Meghalaya	3	Ri bhoi	36923	25846	10226	13	5318
520	Meghalaya	4	South garo	50497	35348	0	0	350
521	Meghalaya	5	South west garo hills	68011	47608	1046	1	544
522	Meghalaya	6	South West Khasi hills	20897	14628	0	0	200
523	Meghalaya	7	West garo hills	138230	96761	1579	1	821
524	Meghalaya	8	West jaintia hills	26025	18218	474	1	246
525	Meghalaya	9	East garo hills	25068	17548	37	0	150
526	Meghalaya	10	North Garo hills	22839	15987	6	0	70.00
527	Meghalaya	11	West khasi hills	52648	36854	68	0	200
528	Mizoram	1	Aizawl	3897	2728	2348	29	1221
529	Mizoram	2	Champhai	3185	2230	558	8	290
530	Mizoram	3	Kolasib	3670	2569	577	7	300
531	Mizoram	4	Lawngtlai	1692	1184	237	7	123
532	Mizoram	5	Lunglei	2445	1712	805	16	419
533	Mizoram	6	Mamit	1209	846	87	3	45
534	Mizoram	7	Serchhip	1719	1203	417	12	217
535	Mizoram	8	Siaha	1585	1110	137	4	71
536	Nagaland	1	Kiphire	562	393	125	11	71
537	Nagaland	2	Longleng	4312	3018	112	1	64
538	Nagaland	3	Mon	3204	2243	106	2	60
539	Nagaland	4	Peren	6714	4700	571	4	324
540	Nagaland	5	Phek	2055	1439	419	10	238
541	Nagaland	6	Tuensang	2967	2077	104	2	59
542	Nagaland	7	Wokha	903	632	92	5	52
543	Nagaland	8	Zunheboto	3201	2241	102	2	58
544	Sikkim	1	East	33746	23622	9407	13	5249
545	Sikkim	2	West	29989	20992	5450	9	3041
546	Sikkim	3	North	12195	8537	147	1	82
547	Sikkim	4	South	26117	18282	3121	6	1742
548	Tripura	1	Dhalai	49720	34804	12385	12	6886
549	Tripura	2	Gomati	55593	38915	19872	17	11049
550	Tripura	3	Khowai	36989	25892	13869	18	7711

551	Tripura	4	North district	40255	28179	9720	11	5404
552	Tripura	5	Sepahijala	72150	50505	33454	22	18600
553	Tripura	6	South district	74602	52221	11377	7	6326
554	Tripura	7	Unakoti	35533	24873	4509	6	2507
555	Tripura	8	West district	54191	37934	38938	34	21650
	Total			**126263233**	**88384263**	**47088267**	**19**	**30619977**

Annexure-II: MINIMUM STANDARD PROTOCOL PRESCRIBED BY GOI

Breed	Dam's Lactation yield (Kgs)		
	First	Best	Fat%
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 DAHD, Ministry of Fisheries, Animal Husbandry and Dairying, GOI shall be applicable

NAIP IV Expenditure Statement

Annexure III

S. No	States/Uts	No. of districts	Target No of animals in lakh	No of animals to be covered	No.of A.I to be performed	Total No.of A.I to be performed @ 2.5 A.I / animal (lakh)	No.of semen doses reqd +5% extra (lakh)	Cost of semen doses incl consumables transportation and Storage @ Rs. 40/ dose	Incentives on A.I to PVT. A.I. tech @ Rs. 50/A.I & Rs.100/- for NER and hilly States	Incentives @ Rs. 200/- for achieving conception on at first AI (all AIT's)	Incentives @ Rs. 100/- for achieving conception on at 2nd AI (all AIT's)	Incentives on calf born to Pvt. A.I. tech @ Rs. 100/Calf born	2 DEO on consolidated basis @ Rs. 10000/- per month for 10 months per district	Contingency grant @ Rs 5 lakh per district	Parentage testing for 10 calves/district @ Rs.3400/calf	Awareness programme at States level @ Rs. 5 lakh	Total (Rs. in lakh)
1	Andhra Pradesh	9	23.60	16.50	54.27	41.3	57.0	2279.4	1356.8	943.9	707.9	825.1	18.0	45.00	3.06	5.0	6184
2	Bihar	38	31.13	21.77	71.60	54.4	75.2	3007.4	1790.1	1245.3	934.0	1088.6	76.0	190.00	12.92	5.0	8349
3	Chattisgarh	27	5.42	3.79	12.47	9.5	13.1	523.7	311.7	216.8	162.6	189.6	54.0	135.00	9.18	5.0	1608
4	Gujarat	21	28.22	19.73	64.90	49.3	68.1	2725.9	1622.5	1128.7	846.5	986.7	42.0	105.00	7.14	5.0	7469
5	Goa	2	0.30	0.21	0.70	0.5	0.7	29.4	17.5	12.2	9.1	10.7	4.0	10.00	0.68	5.0	99
6	Haryana	2	1.43	1.00	3.29	2.5	3.5	138.1	82.2	57.2	42.9	50.0	4.0	10.00	0.68	5.0	390
7	Himachal Pradesh	12	7.49	5.24	17.22	13.1	18.1	723.2	860.9	299.4	224.6	261.8	24.0	60.00	4.08	5.0	2463
8	UT Jammu & Kashmir	20	6.58	4.60	15.13	11.5	15.9	635.4	756.5	263.1	197.3	230.0	40.0	100.00	6.80	5.0	2234
9	Ladakh	2	0.02	0.01	0.04	0.0	0.0	1.7	1.0	0.7	0.5	0.6	4.0	10.00	0.68	5.0	24
10	Jharkhand	24	14.30	10.00	32.89	25.0	34.5	1381.4	822.3	572.0	429.0	500.0	48.0	120.00	8.16	5.0	3886
11	Karnataka	14	14.05	9.83	32.32	24.6	33.9	1357.3	807.9	562.0	421.5	491.3	28.0	70.00	4.76	5.0	3748
12	Madhya Pradesh	51	32.39	22.65	74.50	56.6	78.2	3129.0	1862.5	1295.6	971.7	1132.6	102.0	255.00	17.34	5.0	8771

No.	State															
13	Maharashtra	33	30.05	21.01	69.11	52.5	72.6	2902.4	1727.6	1201.8	901.4	1050.6	66.0	165.00	11.22	5.0	8031
14	Odisha	29	20.38	14.25	46.87	35.6	49.2	1968.5	1171.7	815.1	611.3	712.5	58.0	145.00	9.86	5.0	5497
15	Rajasthan	33	33.82	23.65	77.79	59.1	81.7	3267.2	1944.8	1352.9	1014.7	1182.6	66.0	165.00	11.22	5.0	9009
16	Tamil Nadu	13	22.58	15.79	51.92	39.5	54.5	2180.8	1298.1	903.0	677.3	789.4	26.0	65.00	4.42	5.0	5949
17	Telangana	32	7.15	5.00	16.45	12.5	17.3	690.7	411.1	286.0	214.5	250.0	64.0	160.00	10.88	5.0	2092
18	Uttar Pradesh	67	116.53	81.49	268.02	203.7	281.4	11256.7	6700.4	4661.2	3495.9	4074.5	134.0	335.00	22.78	5.0	30685
19	Uttarakhand	12	5.81	4.06	13.36	10.2	14.0	561.1	668.0	232.3	174.3	203.1	24.0	60.00	4.08	5.0	1932
20	West Bengal	19	31.46	22.00	72.36	55.0	76.0	3039.0	1809.0	1258.4	943.8	1100.0	38.0	95.00	6.46	5.0	8295
	Total	460	432.70	302.58	995.20	756.5	1044.96	41798.35	26022.65	17307.80	12980.85	15129.20	920.00	2300.00	156.40	100.00	116715.3

Fund requirement by Non NER States for 500 districts (* For NER States, Fund has already been released under NER A.I Program) — 1225.20

Awareness campaigne @ 1% of total cost — 12.3

Hiring of manpower 4 technical consultants on consolidated salary of @ Rs.50,000/-per month (3 veterinarians for monitoring of INAPH and 1 Management consultant for monitoring the AI progress and) on short term basis for one year. — 24.0

Three data entry operators for the division on consolidated salary of Rs. 18000/-month on short time basis (one year) for compiling of progress — 6.5

Evaluation of NAIP IV by an independent agency — 40.0

Gross Total — **118023.2**

For NER States

(Rs. in Lakh)

S. No	States/Uts	No. of districts	Target no.of animals (lakh)	Total No.of A.I to be performed @ 2.5 A.I / animal (lakh)	Incentives @ Rs. 200/- for achieving conception at first AI (all AIT's)	Incentives @ Rs. 100- for achieving conception at 2nd AI (all AIT's)	2 DEO on consolidated basis @ Rs. 10000/-per month for 10 months per district	Contingency grant @ Rs 5 lakh per district for wall writing, Banners, transportation of semen doses & AI consumables etc.and monitoring of progress	Parentage testing for 10 calves/ district @ Rs.3400/calf (for both dam & Calf samples @ Rs. 1700/ calf and Rs. 1700 for dam both)	Awareness programme at States level @ Rs. 5 lakh/State	Total expenditure
1	Arunachal pradesh	14	0.006	0.02	0.24	0.60	28.0	70.00	4.76	5.0	108.6
2	Assam	33	2.340	5.85	93.60	234.00	66.0	165.00	11.22	5.0	574.8
3	Manipur	9	0.079	0.20	3.16	7.90	18.0	45.00	3.06	5.0	82.1
4	Meghalaya	11	0.122	0.31	4.88	12.20	22.0	55.00	3.74	5.0	102.8
5	Mizoram	8	0.027	0.07	1.08	2.70	16.0	40.00	2.72	5.0	67.5
6	Nagaland	8	0.009	0.02	0.36	0.90	16.0	40.00	2.72	5.0	65.0
7	Sikkim	4	0.101	0.25	4.04	10.10	8.0	20.00	1.36	5.0	48.5
8	Tripura	8	0.801	2.00	32.04	80.10	16.0	40.00	2.72	5.0	175.9
	NER Total*	95	3.49	8.7125	139.4	348.5	190	475	32.3	40	1225.2

Annexure-IV: A.I FORMAT FOR INAPH UPLOADING

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				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 ☐ |

Calving Transaction

V

| 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 centralized 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 up to last copy.