GOVERNMENT OF KARNATAKA

Department of Animal Husbandry & Veterinary Services

Dr. Manjunath S Palegar, Joint Director(Dev)

Vishveshwaraiaah Mini Tower, Dr. Ambedkar Veedhi, Bengaluru-01.
## History

<table>
<thead>
<tr>
<th>Year Range</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1512-1617</td>
<td>Emperors of <strong>VIJAY NAGAR DYNASTY</strong>.</td>
</tr>
<tr>
<td>1672-1704</td>
<td>Named as <strong>BENNE CHAWADI</strong> by Sri Chikkaraja Wadeyar, Mysuru Maharaj</td>
</tr>
<tr>
<td>1704-1799</td>
<td>Named as <strong>AMRUTHMAHAL</strong> by Sri Tippu Sulthan.</td>
</tr>
<tr>
<td>1813</td>
<td>Captain Harvey, <strong>MADRAS HIGH COMMISSIONER</strong> took over the charge</td>
</tr>
<tr>
<td>1833</td>
<td>The Amruthmahal department was hand over to <strong>MYSORE COMMISSIONER</strong>.</td>
</tr>
<tr>
<td>1923</td>
<td>Director of <strong>AGRICULTURE DEPARTMENT</strong> Administration.</td>
</tr>
<tr>
<td>1929</td>
<td><strong>DEPARTMENT OF AHVS</strong> in Amruthmahal cattle breeding station <strong>AJJAMPUR</strong> in Chikkamagalur district.</td>
</tr>
</tbody>
</table>
# Animal Resources of Karnataka

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle</td>
<td>95.16</td>
<td>84.97</td>
<td>-10.71</td>
</tr>
<tr>
<td>Buffaloes</td>
<td>34.71</td>
<td>29.96</td>
<td>-13.66</td>
</tr>
<tr>
<td>Sheep</td>
<td>95.84</td>
<td>110.46</td>
<td>15.26</td>
</tr>
<tr>
<td>Goat</td>
<td>47.96</td>
<td>61.68</td>
<td>28.61</td>
</tr>
<tr>
<td>Pig</td>
<td>3.05</td>
<td>3.24</td>
<td>6.27</td>
</tr>
<tr>
<td>Others</td>
<td>13.29</td>
<td>13.44</td>
<td>1.08</td>
</tr>
<tr>
<td>Total Livestock</td>
<td>290.01</td>
<td>303.75</td>
<td>4.74</td>
</tr>
<tr>
<td>Poultry</td>
<td>534.42</td>
<td>635.57</td>
<td>18.93</td>
</tr>
</tbody>
</table>
Percentage Variation of Livestock Population between 2007 & 2012 and 2012 & 2017

Species

- Cattle
- Buffaloes
- Sheep
- Goat
- Pig
- Others
- Total Livestock
- Poultry

Percentage Variation of Livestock Population between 2007 & 2012 and 2012 & 2017

% of Variation between 2007 & 2012

% of Variation between 2012 & 2017

- 2017
- 2012

Species

Cattle: -9.43, -10.71
Buffaloes: -13.66, -19.83
Sheep: 0.19
Goat: 28.61, 8.95
Pig: 6.27
Others: 1.08, 1.08
Total Livestock: 25.94, 4.74
Poultry: 18.93

Percentage variation

-40 -30 -20 -10 0 10 20 30 40
## Major Livestock Productions

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Livestock products</th>
<th>2015-16</th>
<th>2016-17</th>
<th>2017-18</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Milk (in Crore Kgs)</td>
<td>634</td>
<td>656</td>
<td>714</td>
</tr>
<tr>
<td>2</td>
<td>Egg (in Crore Nos)</td>
<td>477</td>
<td>507</td>
<td>557</td>
</tr>
<tr>
<td>3</td>
<td>Meat (in Crore Kgs)</td>
<td>20</td>
<td>21</td>
<td>23</td>
</tr>
</tbody>
</table>

Source: Integrated Sample Survey
Milk, Egg and Meat Production from 2015-16 to 2017-18

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-16</td>
<td>634</td>
<td>477</td>
<td>20</td>
</tr>
<tr>
<td>2016-17</td>
<td>656</td>
<td>507</td>
<td>21</td>
</tr>
<tr>
<td>2017-18</td>
<td>714</td>
<td>557</td>
<td>23</td>
</tr>
</tbody>
</table>
## Income from Animal Husbandry to Agriculture and Allied Sector and Total GSDP

<table>
<thead>
<tr>
<th>SECTOR</th>
<th>VALUE OF PRODUCE (AT CURRENT PRICES)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2016-17</td>
</tr>
<tr>
<td>Animal husbandry to Agriculture and allied sector</td>
<td>19.26</td>
</tr>
<tr>
<td>Animal husbandry to GSDP</td>
<td>2.25</td>
</tr>
</tbody>
</table>

Source: Economic Survey of Karnataka
State’s Position At National Level 2017-18

- 4th Rank - Sheep and Goat Numbers: 144 Lakhs
- 7th Rank - Egg Production: 55661 Lakhs
- 9th Rank - Cattle and Buffalo Numbers: 130 Lakhs
- 11th Rank - Meat Production: 2.3 Lakh Tonnes
- 11th Rank - Milk Production: 71.37 Lakh Tonnes
Institutional Structure

STATE LEVEL
Super Speciality Hospital

DIVISIONAL
Speciality Hospital

DISTRICT LEVEL
Polyclinic

TALUKA LEVEL
Veterinary Hospital and MVC

HOBLI LEVEL
Veterinary Hospital

VILLAGE LEVEL
Veterinary Dispensary
Primary Veterinary Center
### Veterinary Institutions

<table>
<thead>
<tr>
<th>Veterinary Service Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veterinary Super Speciality Hospital/ Speciality Hospital/ Polyclinic</td>
<td>32</td>
</tr>
<tr>
<td>Veterinary Hospital- Taluka/Hobli (VH)</td>
<td>665</td>
</tr>
<tr>
<td>Mobile Veterinary clinic (MVC)-Taluka</td>
<td>176</td>
</tr>
<tr>
<td>Veterinary Dispensary- GP/Village(VD)</td>
<td>2135</td>
</tr>
<tr>
<td>Primary Veterinary Centers – Village(PVC)</td>
<td>1206</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4214</strong></td>
</tr>
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</table>
## Staff Position

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Name of the Post</th>
<th>Sanctioned</th>
<th>Filled</th>
<th>Vacant</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Technical Officers</td>
<td>3724</td>
<td>2841</td>
<td>883</td>
</tr>
<tr>
<td>2</td>
<td>Para Staff</td>
<td>6543</td>
<td>4525</td>
<td>2018</td>
</tr>
<tr>
<td>3</td>
<td>Ministerial Staff</td>
<td>770</td>
<td>614</td>
<td>156</td>
</tr>
<tr>
<td>4</td>
<td>Driver</td>
<td>296</td>
<td>117</td>
<td>179</td>
</tr>
<tr>
<td>5</td>
<td>D group</td>
<td>7720</td>
<td>3388</td>
<td>4332</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>18826</strong></td>
<td><strong>11258</strong></td>
<td><strong>7568</strong></td>
</tr>
</tbody>
</table>

14
### Veterinary Services

<table>
<thead>
<tr>
<th>Service</th>
<th>Value (in lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out patient Treatment</td>
<td>316.82</td>
</tr>
<tr>
<td>De-worming</td>
<td>209.11</td>
</tr>
<tr>
<td>Artificial Insemination</td>
<td>31.05</td>
</tr>
<tr>
<td>Castration</td>
<td>7.93</td>
</tr>
<tr>
<td>Surgeries (Minor &amp; Major)</td>
<td>1.63</td>
</tr>
</tbody>
</table>
Artificial Insemination in Cattle
Sheep and Goat De-worming
Gynecological Intervention with Ultra Sound Machine
Major Surgeries at Polyclinic
Haemoanalyser and Blood Transfusion
Veterinary Surgery in Small Animals
Mobile Veterinary Clinics

- One mobile veterinary clinic in each taluk (176 taluks)
- Veterinary services to 3863 villages in the route
- “Sahayavani” Toll free No 18004250012 (call centre)
Animal Health Camps

- UNIT COST: 25,000 (100% GOVT CONTRIBUTION)
- 2256 Health camps
- Rs. 5.64 crores
### Breed Wise Semen Straws Produced During 2018-19

<table>
<thead>
<tr>
<th>Breed</th>
<th>HF</th>
<th>JR</th>
<th>HR</th>
<th>AML</th>
<th>KR</th>
<th>DN</th>
<th>THA</th>
<th>MG</th>
<th>SR</th>
<th>MR</th>
<th>SORTED</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9.32</td>
<td>11.20</td>
<td>1.75</td>
<td>1.42</td>
<td>0.37</td>
<td>0.14</td>
<td>0.06</td>
<td>0.08</td>
<td>1.68</td>
<td>4.54</td>
<td>0.079</td>
<td>30.75</td>
</tr>
</tbody>
</table>

### Semen Straws Production and Distribution in lakhs

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCTION</td>
<td>12.33</td>
<td>41.78</td>
<td>33.50</td>
<td>38.47</td>
<td>38.36</td>
<td>30.75</td>
</tr>
<tr>
<td>DISTRIBUTION</td>
<td>31.16</td>
<td>36.63</td>
<td>35.03</td>
<td>39.07</td>
<td>34.05</td>
<td>36.75</td>
</tr>
</tbody>
</table>
Production & Distribution Of Semen Straws in Karnataka

PRODUCTION DISTRIBUTION

- **2013-14**: 1,233,102 (Production) 3,116,610 (Distribution)
- **2014-15**: 4,178,334 (Production) 3,663,553 (Distribution)
- **2015-16**: 3,503,850 (Production) 3,350,578 (Distribution)
- **2016-17**: 3,847,864 (Production) 3,907,608 (Distribution)
- **2017-18**: 3,836,738 (Production) 3,405,679 (Distribution)
- **2018-19**: 2,412,958 (Production) 3,675,455 (Distribution)
AMRUTH MAHAL Bull Mother Farm-Ajjampur, Chikkamagalur. Established in year 1867 by His highness Maharaja Sri Krishnarajawadeyar
Amruthmahal Cows in Kaval Lands

Amruthmahal Bulls
Khillar Breeding Station, Bankapur

- Established in the year 1919 by Dr. Gore
- Conservation and Breeding of Khillar animals
- Hallikar breed conservation & bull calves production.
- Marketing of Desi milk collected from Hallikar cows (NAFCC project) at Rs. 40/- per liter.
Buffalo Breeding Farm, Tegur

- Murrah & Surti breed male calf production to distribute to farmers & to the Sperm Stations.
Jersey Cattle Breeding Station, Kudige

- Jersey bull calves produced for sperm stations.
HF bull calves production for sperm stations.
Deoni Cattle Breeding Farm, Hudagi, Bidar
(Karnataka Veterinary Animal & fisheries Sciences University)

- 25 to 30 calves are given to farmers every year since 2010 to till date and 3 to 4 to the Sperm Station.
Murrah Buffalo Breeding Farm, Koila

- Started in the year 1951.
- Conservation of Murrah Buffalo Breed and production of Buffalo male calf to distribute to farmers & to Sperm Stations.
Sperm Stations

SLBTC. Hesaraghatta

- HF, Jersey, Murrah & Surti breed frozen semen production.
State Semen Collection Centre, Hesaraghatta

- Hallikar, Amrutmahal, HF & Jersey breed frozen semen production.
Centralized Semen Collection Centre, Dharwad

- Deoni, Khillard, Malnad Gidda, HF & Jersey breeds frozen semen production.
Sperm Stations

PROCESSING LAB

QUALITY CONTROL LAB
# Nandini Sperm Station (KMF) Hesaraghatta

## Semen straw Production 2018-19

<table>
<thead>
<tr>
<th></th>
<th>HF</th>
<th>Jersey</th>
<th>Murrah</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14,70,193</td>
<td>16,58,978</td>
<td>3,98,565</td>
<td>35,28,456</td>
</tr>
</tbody>
</table>
Regional Semen Banks

Mysore, Bangalore, Dharwad, Gulbarga and Raichur
Bulk Containers, Transport Containers in the Semen Bank
Liquid Nitrogen Silo
Unit Cost: 30 lakhs. Units: 20
LIVESTOCK HEALTH & DISEASE CONTROL PROGRAMMES

- ASCAD (60:40)
- FMD-CP (60:40)
- PPR-CP (60:40)
- ESVHD (60:40)
- B-CP (60:40)
- PED (50:50)
- NPRSM (100%)
- NADRS (100%)
<table>
<thead>
<tr>
<th>Sl No</th>
<th>Name of the Disease</th>
<th>Animal</th>
<th>Schedule month for vaccination</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anthrax</td>
<td>Cattle, Buffalo, Sheep, Goat</td>
<td>January</td>
</tr>
<tr>
<td>2</td>
<td>P.P.R</td>
<td>Sheep, Goat</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Round February 2&lt;sup&gt;nd&lt;/sup&gt; Round August</td>
</tr>
<tr>
<td>3</td>
<td>F&amp;M</td>
<td>Cattle, Buffalo, Pig</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Round March 2&lt;sup&gt;nd&lt;/sup&gt; Round September</td>
</tr>
<tr>
<td>4</td>
<td>B.Q</td>
<td>Cattle, Buffalo,</td>
<td>April</td>
</tr>
<tr>
<td>5</td>
<td>B.C</td>
<td>Female calves of Cattle and Buffalo below age 6 to 8 months</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; week of Every Month</td>
</tr>
<tr>
<td>6</td>
<td>H.S</td>
<td>Cattle, Buffalo, Sheep, Goat</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Round May 2&lt;sup&gt;nd&lt;/sup&gt; Round November</td>
</tr>
<tr>
<td>7</td>
<td>E.T</td>
<td>Sheep, Goat</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; Round June 2&lt;sup&gt;nd&lt;/sup&gt; Round December</td>
</tr>
<tr>
<td>SL. NO</td>
<td>DISEASE</td>
<td>OUT BREAKS</td>
<td>ATTACKS</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------</td>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>1</td>
<td>Haemorrhagic Septicemia</td>
<td>11</td>
<td>158</td>
</tr>
<tr>
<td>2</td>
<td>Black quarter</td>
<td>5</td>
<td>21</td>
</tr>
<tr>
<td>3</td>
<td>Anthrax</td>
<td>17</td>
<td>145</td>
</tr>
<tr>
<td>4</td>
<td>Enterotoxaemia</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>5</td>
<td>PPR</td>
<td>4</td>
<td>122</td>
</tr>
<tr>
<td>6</td>
<td>Sheep &amp; Goat pox</td>
<td>1</td>
<td>68</td>
</tr>
<tr>
<td>7</td>
<td>Foot and mouth disease</td>
<td>35</td>
<td>3948</td>
</tr>
<tr>
<td>8</td>
<td>Blue Tongue</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>Brucellosis</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
ET Vaccination
FMD Vaccination

Pigs

Cattle
Random Verification of FMD Vaccination by Senior Officers Committees.
Cold Chain Maintenance
Ice Line Refrigerator
Unit Cost: Rs. 3.24 lakhs, Units: 225
Walk-in-Coolers
Unit Cost: 6.4 lakhs  Units: 70
Check Post at the Inter State Border.

Unit Cost: Rs. 1.00 Lakh.  Units: 21
District Diagnostic Laboratory (IAH&VB, KVAFSU)

Unit Cost: 50.00 lakhs. Units: 20
## Veterinary Extension and Training

**Rs. in Lakhs**

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Programmes</th>
<th>Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>State Level Pashu Mela</td>
<td>1</td>
<td>156.00</td>
</tr>
<tr>
<td>2</td>
<td>Cross Breed Cattle show</td>
<td>426</td>
<td>127.80</td>
</tr>
<tr>
<td>3</td>
<td>Calf Rally</td>
<td>352</td>
<td>105.60</td>
</tr>
<tr>
<td>4</td>
<td>Cattle fares</td>
<td>126</td>
<td>63.00</td>
</tr>
<tr>
<td>5</td>
<td>Dog Shows</td>
<td>30</td>
<td>30.00</td>
</tr>
<tr>
<td>6</td>
<td>Milking Competition</td>
<td>30</td>
<td>30.00</td>
</tr>
<tr>
<td>7</td>
<td>Technical Seminars</td>
<td>60</td>
<td>30.00</td>
</tr>
<tr>
<td>8</td>
<td>Celebrations</td>
<td>120</td>
<td>24.00</td>
</tr>
<tr>
<td>9</td>
<td>Farmers, VLI and VA Training (9 Training Centres)</td>
<td>10554</td>
<td>15.83</td>
</tr>
</tbody>
</table>
Cattle Show
District Level Dog Shows
Pashu Mela
Inauguration of Pashu Mela

Dog Show at Pashu Mela
Milking Competitions
Rabies Day
Training Center . Ballari

(9 Training Centers in the State)
Training Center. Dharwad
Training for the Staff/Officers
No. 2,358 in 2018-19

Training for the Farmers
No. 8,196 in 2018-19.
Pashu Bhagya

Induction of Milch Animals

Unit Cost: Rs1,20,000

Subsidy -

<table>
<thead>
<tr>
<th>Category</th>
<th>SC/ST 75%:</th>
<th>General- 25%:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rs. 90,000</td>
<td>Rs. 30,000</td>
</tr>
</tbody>
</table>

Induction of Milch Animals
Sheep/Goat Unit (10+1)

- Unit Cost: 67400
- Subsidy: Rs.60000 for SC/ST, Rs.16850 for General
Pig Unit (10 animals)

- Unit Cost: 1,00,000/-
- Subsidy: Rs.75,000/- for SC/ST and Rs.25,000/- for General.
3 Sheep or Goat Unit

Unit Cost: 15000/-
Subsidy : 13500/- for all.
## Details of Pashu Bhagya Units

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Year</th>
<th>Amount in Rs. Crores</th>
<th>No. of Beneficiaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2015-16</td>
<td>46.93</td>
<td>15748</td>
</tr>
<tr>
<td>2</td>
<td>2016-17</td>
<td>50.37</td>
<td>22074</td>
</tr>
<tr>
<td>3</td>
<td>2017-18</td>
<td>61.07</td>
<td>26164</td>
</tr>
<tr>
<td>4</td>
<td>2018-19</td>
<td>177.14</td>
<td>42100</td>
</tr>
</tbody>
</table>
KSHEERADHARA
(Milk Incentives for Milk Pourers)

Rupees Per Ltr. of milk

<table>
<thead>
<tr>
<th>Year</th>
<th>Rate (Rupees)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>2/-</td>
</tr>
<tr>
<td>2013</td>
<td>4/-</td>
</tr>
<tr>
<td>2016</td>
<td>5/-</td>
</tr>
<tr>
<td>2019</td>
<td>6/-</td>
</tr>
</tbody>
</table>
### Details of Ksheeradhara

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Year</th>
<th>Quantity of Milk (in lakh Kgs)</th>
<th>Amount in Rs. Crores</th>
<th>No. of Farmers (in lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2014-15</td>
<td>21033.44</td>
<td>722.50</td>
<td>8.2</td>
</tr>
<tr>
<td>2</td>
<td>2015-16</td>
<td>24173.57</td>
<td>1017.58</td>
<td>8.4</td>
</tr>
<tr>
<td>3</td>
<td>2016-17</td>
<td>27000.43</td>
<td>944.05</td>
<td>8.6</td>
</tr>
<tr>
<td>4</td>
<td>2017-18</td>
<td>25886.00</td>
<td>1157.28</td>
<td>8.8</td>
</tr>
<tr>
<td>5</td>
<td>2018-19</td>
<td>27346.73</td>
<td>1460.19</td>
<td>8.8</td>
</tr>
</tbody>
</table>
Food Security and Economical Support to Farm Women

GIRIRAJA BIRDS DISTRIBUTION – 10 birds/family
UNIT COST: Rs 1000    SUBSIDY: 75% General ; 100% SC/ST
6,15,000 Birds- 2018-19
BHUSAMRUDDHI PROGRAMME

RUBBER MAT

MILKING MACHINE

CALF REARING SCHEME

ANIMAL INDUCTION

CHAFF CUTTER
Rubber Mats

Unit Cost : Rs.2,980

Subsidy : Rs.2384
(80%)
Milking Machine

Unit Cost: Rs 58000  Subsidy (80%) : Rs46400
Chaff-Cutters

Unit Cost: Rs. 34425  Subsidy (80%) : Rs. 27540
Calf Rearing Scheme

Unit Cost 16,000 Subsidy 13,500
(1.5Kg calf feed/day + Min mix + Calf growth promoters for 6months)
Calf Feed Distribution to the Beneficiaries
Infrastructural Development

- **Pashu Bhavan** - Administrative block at Bangalore.
- **Super Specialty hospital** at Bangalore & Divisional Specialty Hospitals at four divisions.
- **RIDF** - Construction of Veterinary Institutions, PVC, VD, VH and Polyclinics.
- **RKVY programme** - Strengthening of dairy units, existing Semen Labs & Bull Mother farms and construction of new Semen Banks.
Pashu Bhavan

Administrative block of the Department at the cost of Rs.26.00 crores
Super Specialty Hospital

Constructed at Bangalore City at the cost of Rs. **13.5 Crores** as a special referral hospital.
Specialty Hospital

Constructed at Tumakur, Mysuru, Gulbarga and Belagavi at Rs. 3.5 crores each as a referral hospitals for the divisions.
Polyclinics

**Constructed at all the district Head Quarters for Surgical, Gynecological interventions in the district with budget of Rs. 2.0 to 2.4 crores.**
Veterinary Institutional Buildings (RIDF Fund)

Veterinary Hospital  
Rs. 35.00 Lakhs

Primary Veterinary Centre  
Rs. 28.00 Lakhs
Veterinary Dispensary
Rs. 30.00 lakhs
Taluka Assistant Director Office, VH, Hukkeri
<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Year</th>
<th>Tranch</th>
<th>Number of Projects</th>
<th>Project cost (Rs. in crores)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2005-06</td>
<td>11</td>
<td>177</td>
<td>14.81</td>
</tr>
<tr>
<td>2</td>
<td>2006-07</td>
<td>12</td>
<td>150</td>
<td>15.00</td>
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<td>3</td>
<td>2007-08</td>
<td>13</td>
<td>76</td>
<td>9.99</td>
</tr>
<tr>
<td>4</td>
<td>2008-09</td>
<td>14</td>
<td>63</td>
<td>9.69</td>
</tr>
<tr>
<td>5</td>
<td>2009-10</td>
<td>15</td>
<td>59</td>
<td>9.95</td>
</tr>
<tr>
<td>6</td>
<td>2010-11</td>
<td>16</td>
<td>58</td>
<td>9.96</td>
</tr>
<tr>
<td>7</td>
<td>2011-12</td>
<td>17</td>
<td>39</td>
<td>7.99</td>
</tr>
<tr>
<td>8</td>
<td>2012-13</td>
<td>18</td>
<td>48</td>
<td>9.95</td>
</tr>
<tr>
<td>9</td>
<td>2013-14</td>
<td>19</td>
<td>127</td>
<td>31.91</td>
</tr>
<tr>
<td>10</td>
<td>2014-15</td>
<td>20</td>
<td>189</td>
<td>50.35</td>
</tr>
<tr>
<td>11</td>
<td>2015-16</td>
<td>21</td>
<td>132</td>
<td>38.92</td>
</tr>
<tr>
<td>12</td>
<td>2016-17</td>
<td>22</td>
<td>91</td>
<td>76.06</td>
</tr>
<tr>
<td>13</td>
<td>2017-18</td>
<td>23</td>
<td>108</td>
<td>33.97</td>
</tr>
<tr>
<td>14</td>
<td>2018-19</td>
<td>24</td>
<td>108</td>
<td>46.12</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>1425</td>
<td>364.67</td>
</tr>
</tbody>
</table>
Programmes Implemented through RKVY Funds

Dairy and Dairy infrastructure development in Karnataka Rs. 10.00 Crores.

• Rs 9.07 crores funded for Mysore Mega Dairy Project.

Mysore Mega Dairy

Mandya Mega Dairy
Establishment of new dairy at Budugumpa Cross in Koppal District  **Rs 11.00 crores**

Establishment of Flexy Pack Unit at Belgaum for Milk Union  **Rs 10.00 cr.**
Strengthening of Farmers Training Centres And Creation of Infrastructure for Skill Development

• Training Centre and Farmers Hostel Building at Bargi, Chamarajanagar Dist.- Rs 1.00 Crore
Establishment of Centre of Excellence for Transfer of Technology in Animal Production in Hassan and Shiggoan Rs 4.1 crores (KVAFSU, Bidar)
Livestock Welfare Programmes

Animal Insurance Scheme (AIS)- NLM.

- Premium rate 2% per animal for one year, 50% Subsidy for APL and 70% Subsidy for BPL.
- Benefits are restricted to a maximum of 5 cattle units per beneficiary.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>AMOUNT (Crores Rs)</th>
<th>ANIMALS INSURED</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-16</td>
<td>7.46</td>
<td>2,31,547</td>
</tr>
<tr>
<td>2016-17 &amp; 2018-19</td>
<td>15.1</td>
<td>2,67,165 (In progress)</td>
</tr>
</tbody>
</table>

Free Insurance for all SC/ST farmer animals.

- Min. of one animal per family at the Premium rate of 5.7% of for 3 years.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>AMOUNT (Crores Rs)</th>
<th>ANIMALS INSURED</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-19</td>
<td>13.5</td>
<td>64,385</td>
</tr>
</tbody>
</table>
Mysore Pinjara Pole Scheme
For Private Goshalas
(for maintenance of abandoned and confiscated animals)

- Annual maintenance - Minimum 50, Maximum 200 animals

a) Basic infrastructure of Goshala - 50% of total estimate.
b) Feeding cost - Rs.17.50/animal/day
c) Fodder development - Rs. 10,000/ hect. (2HA)
d) Establishment of Vermi compost - Rs. 10,000 (one time).
e) Health management - Rs. 300/ animal / annum.
<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Year</th>
<th>No. of Ghoshalas</th>
<th>Amount Rs. In Crores</th>
<th>No. of Animlas</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2015-16</td>
<td>40</td>
<td>6.94</td>
<td>10213</td>
</tr>
<tr>
<td>2</td>
<td>2016-17</td>
<td>43</td>
<td>5.21</td>
<td>11416</td>
</tr>
<tr>
<td>3</td>
<td>2017-18</td>
<td>33</td>
<td>4.00</td>
<td>11280</td>
</tr>
<tr>
<td>4</td>
<td>2018-19</td>
<td>37</td>
<td>4.00</td>
<td>5623</td>
</tr>
</tbody>
</table>
Ex gratia for accidental death of Cattle & Buffaloes

- The scheme was started in the August 2017.
- Compensation of Rs. **10000/-** for accidental death of non-insured Cattle and Buffaloes (above six months age).

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Year</th>
<th>Amount in Rs. Crores</th>
<th>No. of animals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2017-18</td>
<td>1.95</td>
<td>1915</td>
</tr>
<tr>
<td>2</td>
<td>2018-19</td>
<td>10.07</td>
<td>10194</td>
</tr>
</tbody>
</table>
Exgratia Compensation for accidental death of Sheep and Goats

- Rs. 5000/- for adult Sheep/Goat,
- Rs. 2500/- for Kids and Lambs.  
  *Rs.3000/- per sheep/goat

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Year</th>
<th>Amount in Rs. Crores</th>
<th>No. of Sheep/Goats</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2014-15*</td>
<td>5.89*</td>
<td>11913</td>
</tr>
<tr>
<td>2</td>
<td>2015-16</td>
<td>4.98</td>
<td>9847</td>
</tr>
<tr>
<td>3</td>
<td>2016-17</td>
<td>10.00</td>
<td>20062</td>
</tr>
<tr>
<td>4</td>
<td>2017-18</td>
<td>25.68</td>
<td>45407</td>
</tr>
<tr>
<td>5</td>
<td>2018-19</td>
<td>22.00</td>
<td>45018</td>
</tr>
</tbody>
</table>
INAPH Programmes

Ear tagging
25 lakh Animals

MOU, giving Incentive

Morphometric measurements

Artificial Insemination & recording
3356 Tabs
(6.88 Crores)
Leading Innovations

Hydroponic Fodder Production
Hydroponic Green Fodder Production

- Four demonstration hydroponics units - Kurikuppe, Tegur, Koila and Hessaraghatta farms.
  - 100 kg capacity per day
  - Rs. 6.00 Lakh

- Hydroponic units for the farmers
  - 250 Units
  - Unit cost Rs. 70,000
  - 75% General
  - 90% SC & ST

- One day Training programmes
  - 2,000 farmers
  - Rs. 6.00 lakh
### Area Specific Mineral Mixture (ASMM)

#### Commercialization of Technology

<table>
<thead>
<tr>
<th>Firm</th>
<th>Production (Tonnes) 2016-2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karnataka Milk Federation</td>
<td>3165</td>
</tr>
<tr>
<td>Nandi Agrovet, Bengaluru</td>
<td>6.30</td>
</tr>
</tbody>
</table>

#### Benefits
- About **80–90%** of the animals start cycling within 70 days of ASMM supplementation
- About **50-60%** of animals became pregnant

#### Cost Economics
- **1:8** in favour of ASMM supplementation

ASMM developed by ICAR, NIANP, Bangalore
Silage Production in Plastic Drums
Value Addition of Crop Residues

Chaff cutting machines are supplied under NAFCC scheme to the needy farmers with 50% subsidy with an unit cost of Rs.19,800/- Rs. 2.05 Crores(2018-19).
Improving the nutritive value of Crop residues under NIANP Programmes

- 100 kg Straw
  - Chaffing to 1-2 inches
  - Dissolve 2 Kg urea, 100 ml Tween 80 and 500 gm enzymes in 20 ltrs of water and spray to 100 Kg Straw
  - Feed immediately to animals.
  - Heifers 2-6 Kg
  - Cows 5-12 Kg
Mudhol Dog Rearing – A Novel Approach to Rural Entrepreneurship (KVAFSU)

- Prolific animal – Litte size – 3-16.
- Each puppy - Rs. 5000 to 10000/-. 
- One female dog - income more than Rs. 50,000/- a year.
- Rani – a female dog at Center of Excellence, Animal Husbandry Polytechnic, Kunnur, Shiggaon, Dist. Haveri, Karnataka
- 5 years old. 6 whelpings. 33 puppies sold.
- Income of Rs. 1,85,000/-. 
- Expenses per year Rs. 12,500/-
Distribution Of Mudhol Hound Dog Pups (KVAFSU)

Farmers by CRIC, Mudhol of Vety University under with 100 % subsidy (free of cost) for economically weaker section (SC/ST)
Desi Breed Dog Shows

Vijapur/Bagalakot and Bangalore
INTERROGATION OF TWINNING GENE IN TO SHEEP FLOCKS OF KARNATAKA

- PILOT PROJECT IN TUMKUR DISTRICT
- Fec-B carrier (NARI SUWARNA) breeding rams distributed to shepherds
  - 183 rams under Bhoosamrudhi scheme during 2014-15 & 2015-16 @75 percent subsidy
  - 20 rams by KSWDCL @ 90 percent subsidy
  - Free supply of 5 female + 1 male breeding unit to each shepherd (total 5 members) by KVAFSU
TWINS & TRIPLETS IN F2 generation

Rs. 1.5 Crores for Distribution of Narisuvarna Rams for the Year 2019-20
(KSSWDCL)
Desi birds to the Agriculture laborers for back yard poultry farming

- Great demand for indigenous chicken meat in the urban market
- AICRP, Vety. college, Bangalore is maintaining a breeder stock
- The day old chicks are sold at a price of Rs. 25/chick.
- Rearing by KCPF till 6 weeks, and distribution by department.
NAFCC: Project Activities
(National Adaptation Fund for Climate Change)

- Conservation and Revitalization Of Local Cattle Breeds. [Malnad Gidda, Deoni and Hallikar]. - Rs. 12.67 Crores

- Conservation and Revitalization Of Local Sheep Breeds. [Bandur, Bellary and Deccani]. - Rs. 1.33 Crores

- Management of fodder for Livestock. - Rs. 8.83 Crores
Ballari

Deccani

Bandur Sheep
ICAR mega seed project at Livestock Research Centre, Nagamangala, KVAFSU (Karnataka Vety. University) 50 Elite Rams are distributed every year, totally 406 Rams are distributed since 2010-11 to till date.
Digitalization of AHVS

- PASHU BHAGYA
- ILIS
- KSHEERA SIRI
- eEMS
- PASHU AUSHADHA
- SAKALA
- FRUITS
- SAKALA
Advantages

For General Public:
- Detailed facts/figures of scheme & Up-to-date information
- Easy access to information, Clarity & transparency, builds confidence

For Implementing Officers:
- Brings in SOP, Automatic report generation
- Digital documentation, More time for technical work

For Decision Makers:
- Real time information availability & Automatic data consolidation
- Identification & addressing specific issues, tool for decision making
PASHU BHAGYA

Monitoring of all beneficiary oriented schemes starting from target setting, receipt of applications to implementation.

http://pashubhagya.kar.nic.in

PASHU AUSHADHA

Veterinary Medicines Supply Chain Management System (requirement, procurement, distribution, & utilization of Veterinary medicines).

http://pashuaushadha.kar.nic.in
eEMS

Electronic Employee information Monitoring System. Real time information of Veterinary Institutions, Vacancy Positions, Employee Service Information. 

http://ahvseems.in

ILIS

Integrated Livestock Information System. It is used to capture day to day activities of the Veterinary Institutions & automatic generation of progress reports.

http://ahvs.kar.nic.in/ahvsmis
Sakala

Delivery of services to Citizens in stipulated time. Real time tracking of application status on a common portal.

http://sakala.kar.nic.in

FRUITS

(Farmer Registration & Unified Information System)

Well organized and scrutinized livestock farmers database for availing benefits from Government. Farmer information pulled directly from authentic databases - AADHAAR, BHOOMI, AJSK, FCS, EPIC. Beneficiary information will be pushed to FRUITS portal.

http://164.100.133.29
It is web based programme for DBT of Milk incentives to Aadhar linked Bank account of 8.4 lakh milk pourers of Karnataka Milk Federation on monthly basis through Khajane software (K2).

https://ksheerasiri.kar.nic.in
Drought Mitigation
Goshala - 2017-18

Goshalas - 99  Animals - 1.29 lakhs
Fodder   - 1.23 lakh mt.
Fodder Banks

Fodder banks - 447

Fodder - 76,751 mt.
Transportation of Fodder
Rs. 15/- per KM per ton.
Fodder Minikits
~
8.11 lakhs

Fodder
~
30.43 lakhs mt
Kolar Module – Fodder Production to Mitigate Drought Situation
Farmers are registered on-line through Grama panchayat, Kolar, Chikkaballapura Milk Federations and MPCS.

Fodder seed minikits supplied by AH&VS or MPCS with free of cost.

At the time of harvesting of green fodder, farmers were given Rs.2000/- subsidy from MPCS and Rs. 2500/- per acre for ATM and Rs.3000/- per acre for SSG seeds from District Administration per acres as an encouragement.

The above Kolar model Technique made farmers of the district to grow green fodder in their own lands, the excess green fodder was sold at the rate of Rs. 3/- to 5/- per Kg. to needy farmers.

1171 Beneficiaries, 1427 acres land, 42.81 lakhs(2018-19).
Karnataka Sheep and Wool Development Corporation, Bangalore

Ambulatory Clinics

Units: 25        Unit cost: Rs. 7.5 lakhs
Sheep and Goat Deworming
Modern Abattoir for Sheep & Goats by KSWDCL

Cost: Rs. 26.00 Crores (NABARD)
MAIN ABATTOIR PLANT - CHEELANAHALLI SIRA(Tq) TUMKUR,

TEKNA-KON
Engineers & Architects
PREMIER INSTITUTIONS OF KARNATAKA.

NDRI. Bengaluru
NDRI. Bengaluru

- Southern Regional Station of ICAR-National Dairy Research Institute, Bengaluru is the pioneering institution in Dairying established on 1\textsuperscript{st} July 1923 as Imperial Institute of Animal Husbandry and Dairying. One of the memorable events of the Imperial Institute was the regular visit of Mahatma Gandhi ji along with Pandit Madan Mohan Malaviya ji in 1927.

- Indian Dairy Research Institute was reorganized in 1955 and renamed as National Dairy Research Institute.

- The country's first Artificial Insemination was done at SRS-NDRI, Bengaluru. This Station was the first to initiate training in artificial insemination in cattle in the country and also research in different fields of dairy production and processing in India.

- Presently this Station is offering Diploma (Dairy Technology), PG and PhD programmes.
INSTITUTE OF ANIMAL HEALTH & VETERINARY BIOLOGICALS
Vaccines at IAH&VB

Vaccines

- HAEMORRHAGIC SEPTICAEMIA
- ANTHRAX
- BLACK QUARTER
- ENTEROTOXAEMIA
- RABIES
- PPR
- SHEEP POX
- RANIKHET (F and R2B),
- FOWL & PIGEON POX
- KFD

NEW VACCINES/ANTIGENS DEVELOPED

- BLUE TONGUE VACCINE
- CLASSICAL SWINE FEVER VACCINE
- DUCK CHOLERA VACCINE
- MYCOPLASMA ANTIGEN

Diagnostic Antigens

- PULLORUM COLOUR ANTIGEN
- PULLORUM PLAIN ANTIGEN
- BRUCELLA ABORTUS PLAIN ANTIGEN
- BRUCELLA ROSE BENGAL ANTIGEN
- BRUCELLA MILK RING ANTIGEN
Karnataka Veterinary Council, Bangalore
Karnataka Veterinary Council, Hebbala, Bangalore

- Karnataka Veterinary Council Came into existence in the year 1998.
- It has Total 4463 Registered Veterinary Practitioners.
- KVC Conducting Continued Veterinary Education Programme for RVPs.
- KVC is funded by GOI and GOK on 50:50 basis, 2018-19 Government of Karnataka released Rs.100.00 Lakhs.
- Revenue Generated from Infrastructure- 2018-19 Rs. 21.07 Lakhs.
- Own Infrastructures- Auditorium -200Seats, Conference Hall- 50 Seats and 24 Guest Rooms.
NIVEDI, Bengaluru
Past, Present and Future

Past
- Started in 1987 as AICRP on ADMAS
- Functioned with 4 centers (Ludhiana, Pune, Hyderabad, Bangalore)

Present
- Upgraded as Project Directorate in 2000
- Upgraded and renamed as National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI) in 2013
- Currently functions with 15 AICRP ADMAS centres

Continuous
- Functioning now with 31 AICRP centres

Viral Diseases
- IBR, CSF, PPR, Capripox, Rabies, Bluetongue, MCF

Bacterial Diseases
- Brucellosis, Leptospirosis, Pasteurellosis, Mastitis, Listeriosis

Parasitic diseases
- Including trypanosomiasis
IVRI Bangalore Campus

- Established in 1972 under DANIDA for large scale production of FMD vaccine using Fermenters
- First FMD vaccine Plant in the country
- Two locations: Hebbal – R&D
  Yelahanka – Animal Testing facilities

**Mandate**

- R&D work on FMD vaccines and companion diagnostics to improve the efficacy and duration of immunity

IVRI, Bengaluru
Karnataka Veterinary Animal & Fisheries Sciences University & College, Bidar
Veterinary College, Bengaluru
Veterinary College, Shivamogga
Veterinary College, Hassan
Veterinary Polytechnic, Bankapur, Haveri
CENTER OF EXCELLENCE FOR TRANSFER OF TECHNOLOGIES IN ANIMAL PRODUCTION
(KVAFSU)
Kunnur, Tq. Shiggaon,
Dist. – Haveri – 581193
Thank You!