



***Piggery Sector strategy and action plan:
Departmental Vision cum Roadmap for
Development of Animal Husbandry and
Veterinary Sector in the State of Assam, India***

Excerpts of Final Report submitted to:

***Department of Animal Husbandry
and Veterinary
Government of Assam***

By

Vet Helpline India Pvt Ltd

Preparation of Departmental Vision cum Roadmap for Development of Animal Husbandry and Veterinary Sector in the State of Assam – An initiative commissioned by:

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GOVERNMENT OF ASSAM

***Department of Animal Husbandry and Veterinary
Government of Assam***

<https://veterinary.assam.gov.in/>

November 2018

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Piggery sector goal and strategy

Goal 2030

Goal

1. To achieve a vibrant pork value chain for sustainable/competitive production, value addition, ensuring local income generation, and safe, affordable pork and pork products for consumers.
2. To ensure 100% commercial pig farm premise identification in cluster areas for bio-security planning, targeted herd health monitoring, and improved trade of pork with traceability.
3. To achieve effective control over diseases in cluster areas for known pig diseases.

Strategy

1. Strengthening of small farm animal veterinary service with provision for the supply of de-wormers and iron supplementation to address piglet anaemia
2. Increase quality vaccine supply and targeted vaccination campaigns.
3. Mandatory premises registration of commercial pig farms for bio-security, public health support, targeted preventive care, and traceability of pork
4. Promotion of cross-breeding (Through A I) with elite germ-plasm
5. Setting up of nucleus farms for planned breeding stock supply to registered multiplier farms. (Government / Private sector)
6. Promotion of feeding of 'modern pig feed' to produce lean pork suitable for processing
7. Piglet distribution to women SHGs and promotion of contract farming / Pig bank concept¹
8. Support to nomadic tribes rearing local pigs
9. Promotion of private-sector driven initiative in pork processing and by-product utilization
10. Promotion of scientific slaughter and hygienic retailing of pork

¹ A system seen in some parts of Assam where people invest on live pigs being reared at farmers' place under the supervision of organization (pig bank) promoting the investment.

The Basic Piggery Sector Action Plan

Activity Name	Relevant / General Program / Flagship and normal Project title (Refer flagship projects section for detail of components of same)	Goal	Time line	Indicator
<p>Small Farm animal Veterinary Service.</p> <p>(Refer service delivery models)</p>	<p>Small Farm animal Veterinary Service Program – Piggery sector.</p> <p>(General Program)</p> <p>*State-level risk profiling, and targeted / timely available preventive care/vaccination of prioritized Pig diseases (infectious/zoonotic) on mission mode ensuring herd immunity.</p> <p>* Awareness development and Incentive for the cluster-level initiative by FPOs / Cooperatives for bio-security and good practices guide implementation e.g. regular deworming, handling of piglet anemia etc.</p> <p>* Partnership establishment as per given service models for different contexts to improve availability, access, and adequacy of services.</p> <p>* Availability of Point of care and laboratory diagnostic facility for the use of field veterinarian working towards ensuring productivity linked health monitoring of pig herds.</p> <p>* Assistance for</p>	<p>To prevent the occurrence of all major pig disease outbreak and create disease-free zones.</p> <p>To ensure herd health and productivity. (Considering village/locality pig population as herd)</p> <p>To protect the livelihood of farmers by saving the life of diseased, injured animals.</p>	<p>Continuous with a review every five years.</p>	<p>(1) Incidence of major pig diseases</p> <p>(2) Percent adoption of preventive /safe practices amongst sampled pig farmers.</p> <p>(3) Response time of mobile veterinary care</p> <p>(4) Piglet mortality (sampled farmers)</p>

Activity Name	Relevant / General Program / Flagship and normal Project title (Refer flagship projects section for detail of components of same)	Goal	Time line	Indicator
	<p>maintenance of mobile service facility for interior tribal areas.</p> <p>* Assistance of service-related consumables and maintenance of referral consultation facility for field veterinarian on call.</p> <p>* Encouragement of private veterinary pharmacy service in each SVD (Ensuring assortment of drugs for use in pig sector)</p> <p>* Promotions of scientific ethnoveterinary practices.</p>			

Activity Name	Relevant / General Program / Flagship and normal Project title (Refer flagship projects section for detail of components of same)	Goal	Time line	Indicator
Pig Breeding support	<p>Artificial insemination service for Pigs. (General Program)</p> <p>*Creation / up-gradation of needed infrastructure</p> <p>* Maintenance of Project Management Unit under ALDA.</p> <p>* Production/procurement of semen.</p> <p>*Maintenance of cluster and central distribution infrastructure.</p> <p>*Strategic partnerships and coordination with stakeholders</p> <p>* Support for consumables.</p>	<p>To achieve 100% feasible demand-driven area coverage and supply of semen straw to notified cluster areas.</p> <p>To certify inseminators for cluster areas as per National Occupational Standard.</p> <p>100% premises identification of households/farms adopting AI in pig for focused IT-based data generation.</p> <p>To put in place a credible mechanism for calculation of standard performance criteria to measure the success of AI.</p>	Continuous with a review every three years.	<p>(5)</p> <p>Increase demand for the service.</p>

Activity Name	Relevant / General Program / Flagship and normal Project title (Refer flagship projects section for detail of components of same)	Goal	Time line	Indicator
Awareness creation for scientific feeding.	<i>Pahu Puhon Yatra</i> (See flagship project 6 for detail of components)	To augment the adoption of good feeding/feed cultivation practices. To ensure the availability of good commercial pig feed and other safe feed options through FPO level engagement with the private sector. To discourage swill feeding.	3 years To be continued based on the evaluation.	(6) Percent adoption of Scientific and /safe practices as measured amongst sampled farmers within the campaign area vis a vis non-campaign area
Support through existing departmental infrastructure	Rejuvenation of government Pig farms as Nucleus Pig/multiplier farm and as centre for incubated commercial farms. (General Program)	To re-shape select government farms (a) As nucleus pig farms. (both for purebred and indigenous variety) (b) As multiplier farms (c) As farms to support incubated	Continuous with a review every five years.	(7) Functional Nucleus Farms (8) Number of breedable gilts produced by multiplier farm (9) Availability of quality pigs for breeding/fattening as measured by trade records of sampled private breeding farms. (10) Promoted/incubated pig

Activity Name	Relevant / General Program / Flagship and normal Project title (Refer flagship projects section for detail of components of same)	Goal	Time line	Indicator
		private commercial farms		related enterprises by government farms
Asset distribution	Assistance to women for livestock-based livelihood and nutrition (<i>Surovi</i>) (See Flagship Project_ 1 for details)	(1) Enhance family income and improved nutrition. (2) Demand-side support for the growth of local breeding farms	3 years	(11) Number of beneficiaries in the pig sector
Conservation of local breed of pig (covering areas known as a breeding track)	Support to nomadic farmers of local pig herds. (Normal project) *Issue of herd identification card for recognition of farming practice and to protect from any rent-seeking. *Free vaccination support at designated areas as per the convenience of the nomadic community. * Support for deworming medicine. (including ethnoveterinary product preparation as per community knowledge) *Support for temporary night shelter.	To arrest declining growth of nomadic activity related to the rearing of the local breed of pigs.	3 years	(12) Increased nomadic activity (Number/average. herd size)

Activity Name	Relevant / General Program / Flagship and normal Project title (Refer flagship projects section for detail of components of same)	Goal	Time line	Indicator
Training and Capacity building	Support to department / private institutions for the training of pig master farmers and farm supervisors. (General Program)	To ensure availability of master pig farmers in each suitable panchayat for technology dissemination, setting up of farm schools etc. To ensure the availability of trained supervisory man-power for private pig enterprises / FPOs.	Three years (Fixation of yearly target based on the total number of suitable village panchayat and district level demand estimation of skill pig farm/enterprise supervisors.	(13) Percent of suitable panchayat having active master pig farmers. (14) Number of skill council registered pig farmer/farm supervisors.
Action plan for implementation through ALPCo				
Pig Business Advisory	Facilitating Pig related business advisory service. (Refer to Flagship project 5 for components)	To boost private investment in pig sector (both from outside and within the state) and to build a base for future private business advisory services in Assam	3 years (Project to graduate as an independent private enterprise)	(15) Established state-level private advisory company
Entrepreneurship development	Venture capital fund for farm input, processed product/by-product manufacturing/trading activities linked to pig sector	To facilitate value chain activities. To ensure the availability of	Continuous with a review every three years.	(16) Number of pig sector-related enterprises supported.

Activity Name	Relevant / General Program / Flagship and normal Project title (Refer flagship projects section for detail of components of same)	Goal	Time line	Indicator
	Facilitation of participation of local enterprise in trade expos Innovation fund support. <i>(Open for any innovative idea ensuring the promotion of locally produced products -where possible)</i>	critical farm input. To create a market / promote the brand of locally processed pork products. To create a market for by-products.		

NB: The above action plan takes care of the SDG Action plan. The sector will also be benefited through various other cross-cutting programs (e.g., Refer Flagship project on Trade-Related Capacity Building). The border bio-security control infrastructure indicated under the poultry action plan will also be used to monitor the inter-state import of live pigs and pork products.

Additional intervention in piggery sector for implementation through a partnership

1. Premises identification of commercial pig farms (All farms not just farms receiving A I services) with the facility for I T based real-time data generation for Herd health, Bio-security maintenance, productivity improvement, Improved trading of live pigs, and traceability of pork.
2. Initiatives by public/private processing plants related to supply chain development and/or contract farming.
3. Initiative to develop state of the art ' Livestock Protein Park' with common facility for pork processing to be used by incubated entrepreneurs/farmer groups/companies.
4. Initiative by industry association to develop a publicly accessible database of certified pig breeding farms and contacts of other piggery sector linked services for easy reference of entrepreneurs

5. Initiative to provide mobile technology-based pig sector-specific advisory services in local language along with the mobile application for risk-based scoring needed to evaluate the quality of biosecurity by farmers themselves.
6. Initiative to build a brand of pork produced from indigenous breed reared under safe/natural environment (including from nomadic groups registered with government).
7. Initiative for private pig by-product trading activity by FIGs / FPOs / private traders.
8. Establishment of model small-scale / community level pig slaughterhouses.
9. Initiatives for hygienic retailing of pork and pork products
10. Initiative for modernization (including biosecurity planning) of select physical markets known for major pig trading

Other policy tools/initiatives relevant to the piggery sector

(Preferably through the declaration of separate private investment policy)

- (1) Additional subsidy through banks for setting up commercial pig farms and various sector linked private value chain related enterprises, e.g., pig feed premix plant, pork processing plants, modern retailing outlets, exclusive pork food joints, etc.
- (2) Credit guarantees to successful pig farming-related cooperatives.
- (3) Adoption of law on contract farming
- (4) Promotion of private data management companies to support farm premises registration, herd health management, pig farm productivity improvement, pork traceability, and genetic improvement of the pig.
- (5) Enforcement of pig breeding policy, data sharing with the government by private AI operators
- (6) Enforcement of guideline for health and point of origin-destination check of traded pigs entering the state
- (7) Legislation to ensure pig rearing in confinement (within urban and rural cluster areas only, essentially notifying areas for nomadic communities)
- (8) Understanding with food safety commissionerate and implementation of the law to regulate unsafe pork slaughter / retailing.