

Information System for Safe Pork Production in North Eastern India

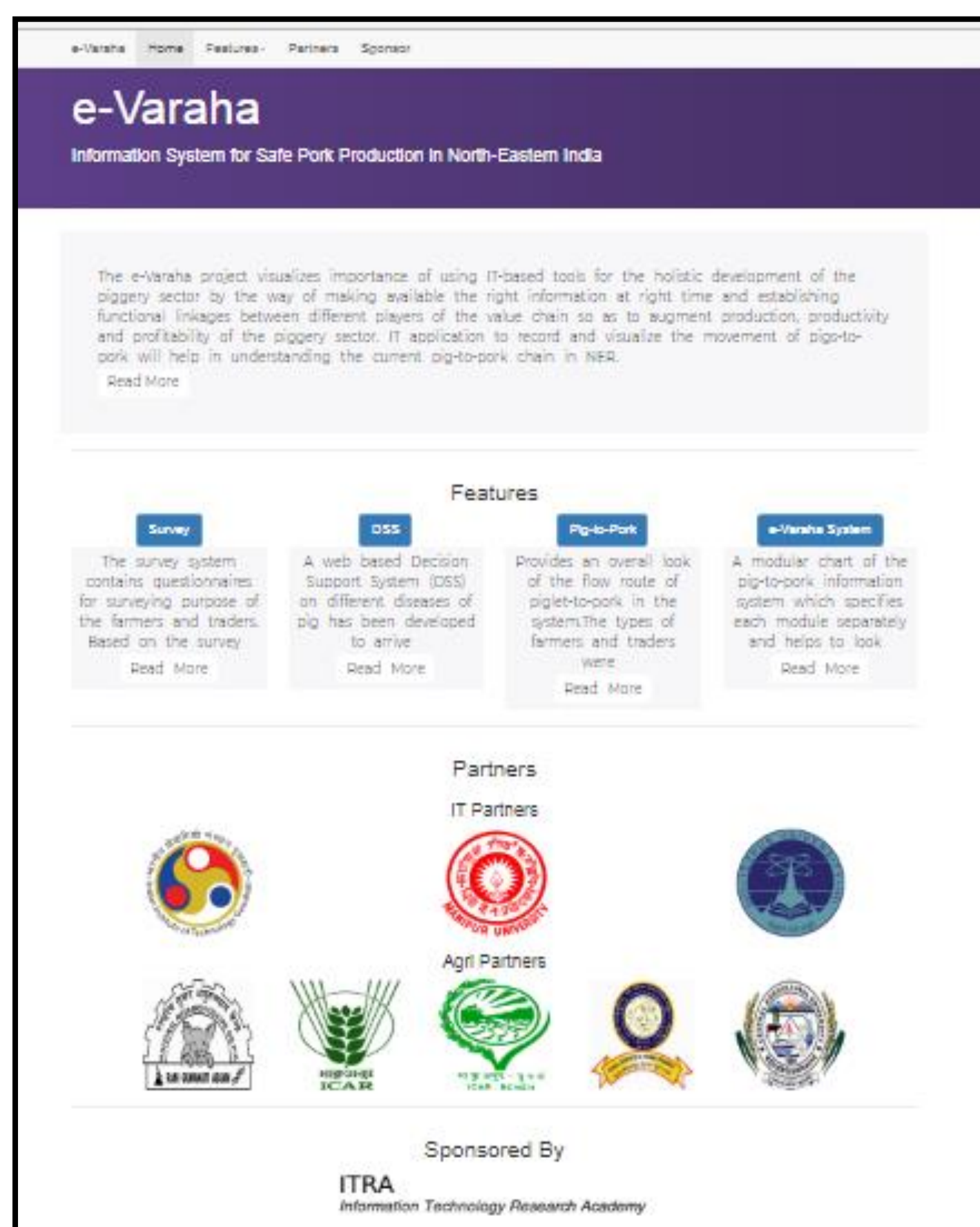
Problem being Solved

There is no traceable safety assured pork production system in North East India when pig farming and production is highly scaled up.

Solution

Set up a IT based system linking all players in pork production in North Eastern India has been developed to enable traceability and safe pork. The components are given below

1. Online e-Varaha system



e-Varaha
Information System for Safe Pork Production in North-Eastern India

The e-Varaha project visualizes importance of using IT based tools for the holistic development of the piggy sector by the way of making available the right information at right time and establishing functional linkages between different players of the value chain so as to augment production, productivity and profitability of the piggy sector. It is application to record and visualize the movement of pig-to-pork chain in NE.

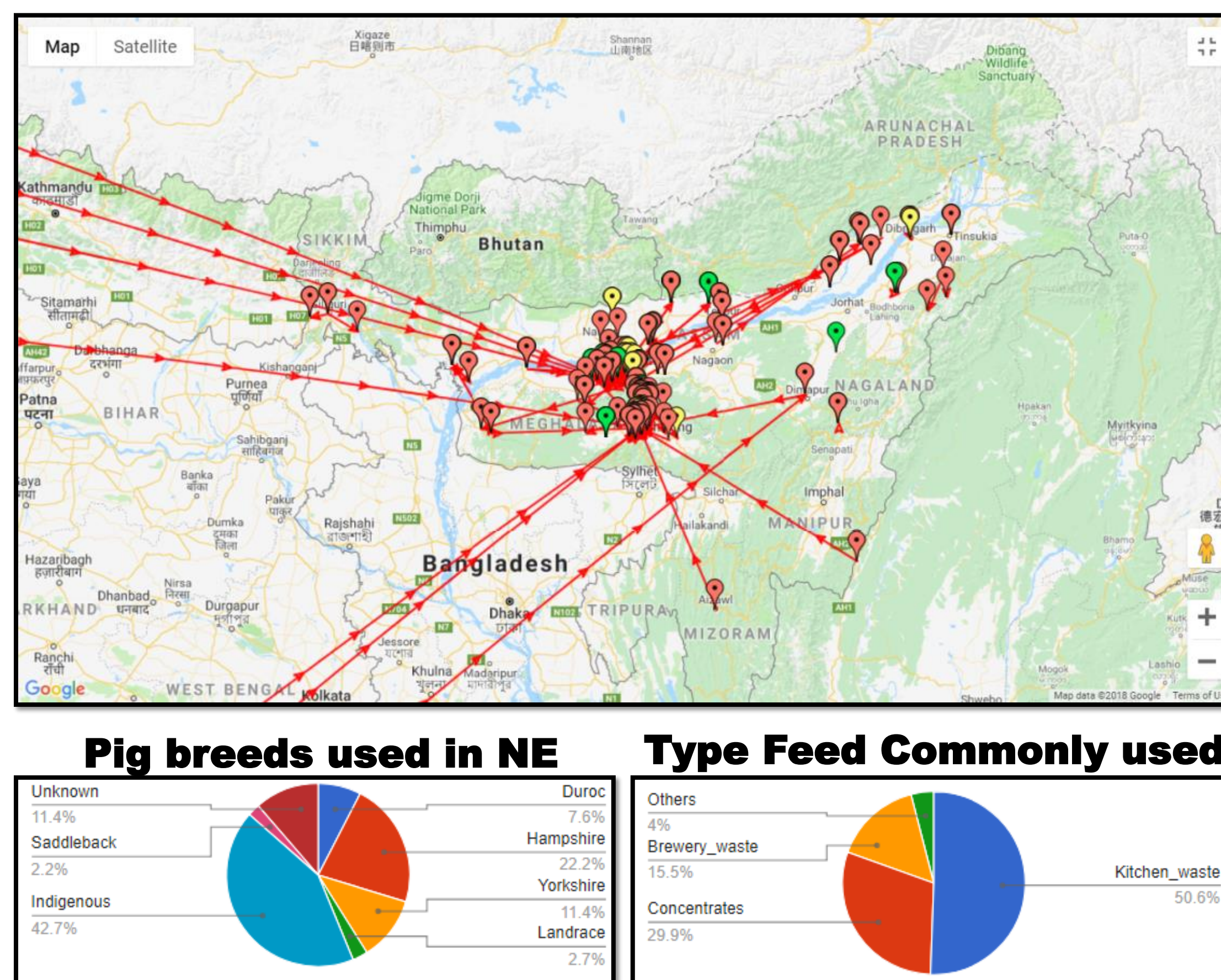
Features:

- Survey:** The survey system contains questionnaires for surveying purpose of the farmers and traders. Based on the survey, read more.
- DSS:** A web based Decision Support System (DSS) has been developed to assist pig farmers to arrive at decision. read more.
- Pig-to-Pork:** Provides an overall look of the flow route of pig-to-pork in the system. The system helps farmers and traders to track and helps to look at the flow route. read more.
- e-Varaha System:** A modular chart of the pig-to-pork information system which specifies each module separately and helps to look at the flow route. read more.

Partners: IT Partners, Agri Partners

Sponsored By: ITRA (Information Technology Research Academy)

2. Pig to Pork routes and real-time data of the Piggery

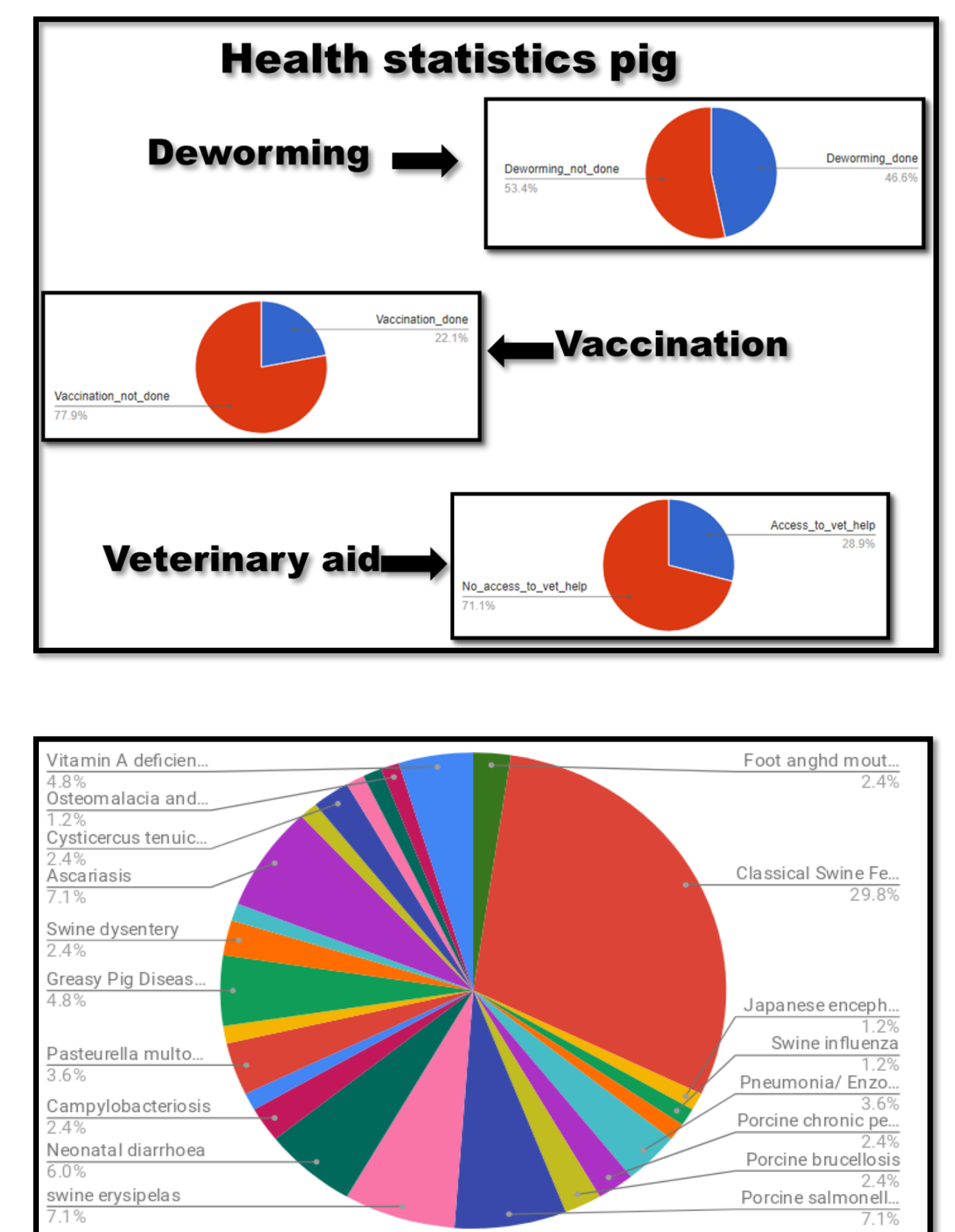


Pig breeds used in NE

Unknown	11.4%
Saddleback	2.2%
Indigenous	42.7%
Duroc	7.6%
Hampshire	22.2%
Yorkshire	11.4%
Landrace	2.7%

Type Feed Commonly used

Others	4%
Brewery_waste	15.5%
Concentrates	29.9%
Kitchen_waste	50.6%



Health statistics pig

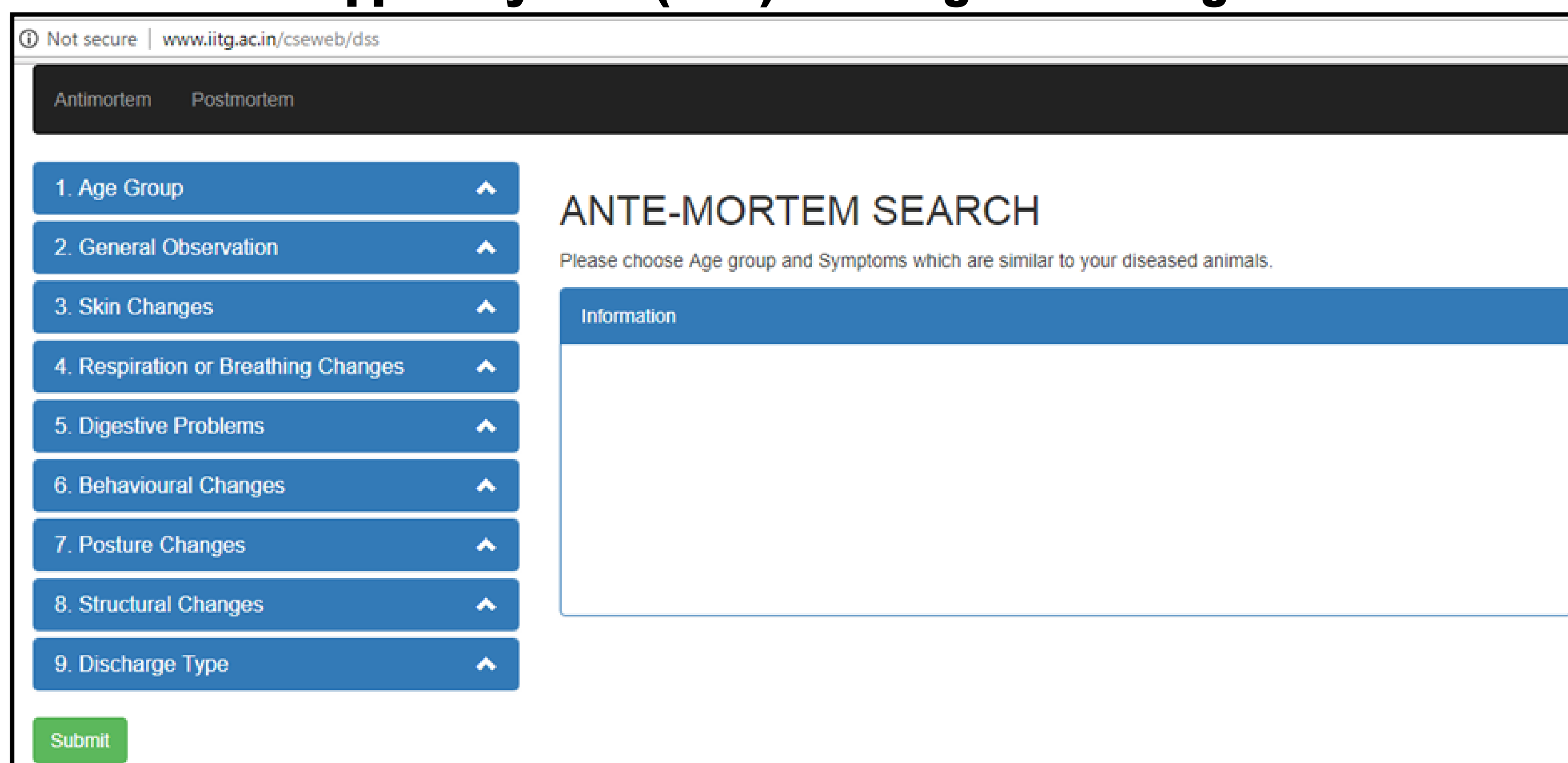
- Deworming:** Deworming_not_done (11.4%), Deworming_done (88.6%)
- Vaccination:** Vaccination_not_done (77.8%), Vaccination_done (22.2%)
- Veterinary aid:** No_access_to_vet_help (71.1%), Access_to_vet_help (28.9%)

Disease Prevalence:

- Classical Swine Fe: 23.8%
- Foot angled musc: 2.4%
- Japanese enceph: 1.7%
- Swine influenza: 1.7%
- Pneumonia/Enz: 2.8%
- Porcine chronic pe: 2.8%
- Porcine brucellosis: 2.8%
- Porcine salmonell: 7.7%
- Others: 4%
- Brewery_waste: 15.5%
- Concentrates: 29.9%
- Kitchen_waste: 50.6%

3. IT based system to examine the health status of Pig

Decision Support System (DSS) for diagnosis of Pig diseases



Antemortem Postmortem

1. Age Group (Selected)

2. General Observation

3. Skin Changes

4. Respiration or Breathing Changes

5. Digestive Problems

6. Behavioural Changes

7. Posture Changes

8. Structural Changes

9. Discharge Type

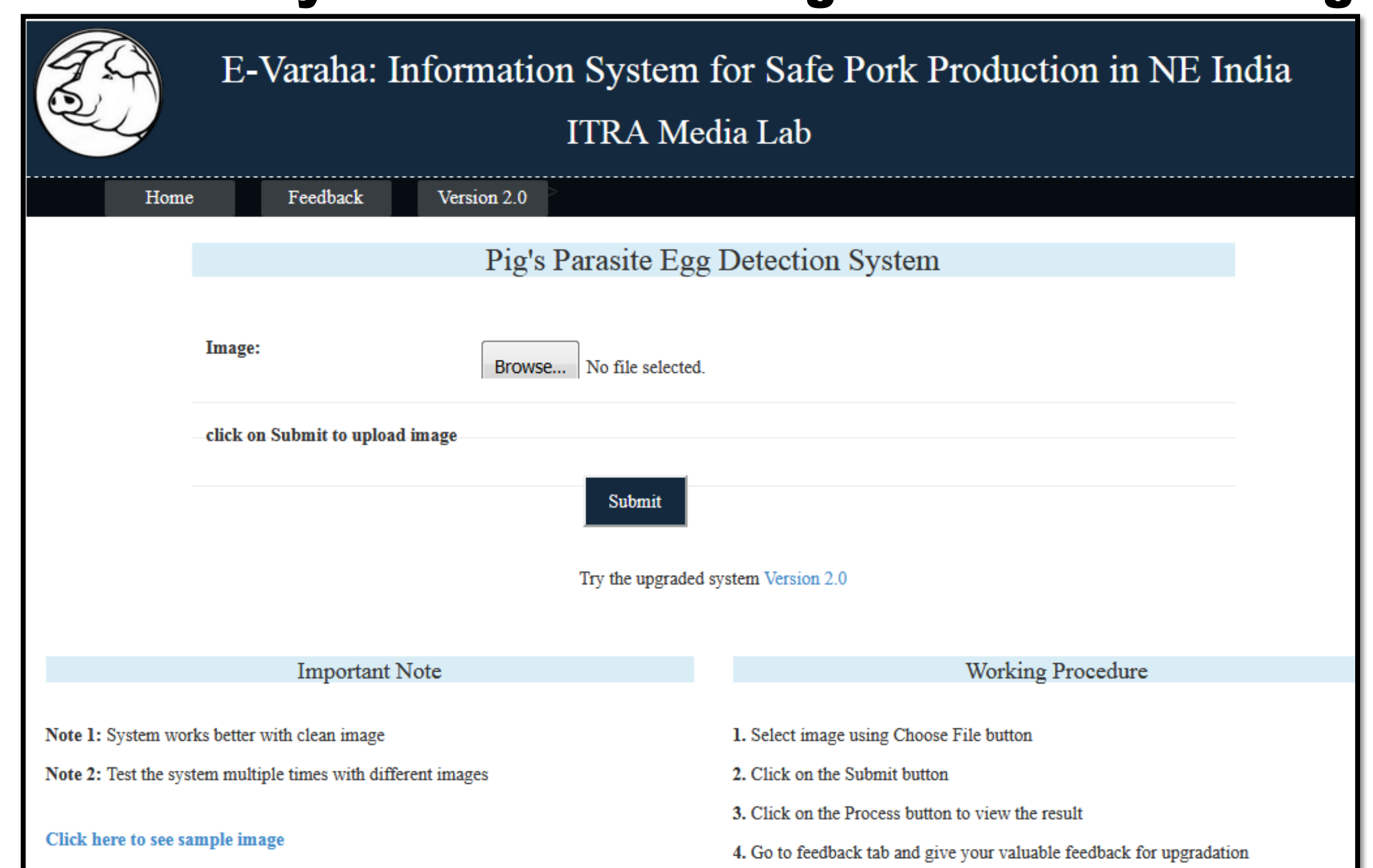
Submit

ANTE-MORTEM SEARCH

Please choose Age group and Symptoms which are similar to your diseased animals.

Information

IT based systems for examining Parasitic load in Pig



E-Varaha: Information System for Safe Pork Production in NE India
ITRA Media Lab

Home Feedback Version 2.0

Pig's Parasite Egg Detection System

Image: No file selected.

click on Submit to upload image

Submit

Try the upgraded system Version 2.0

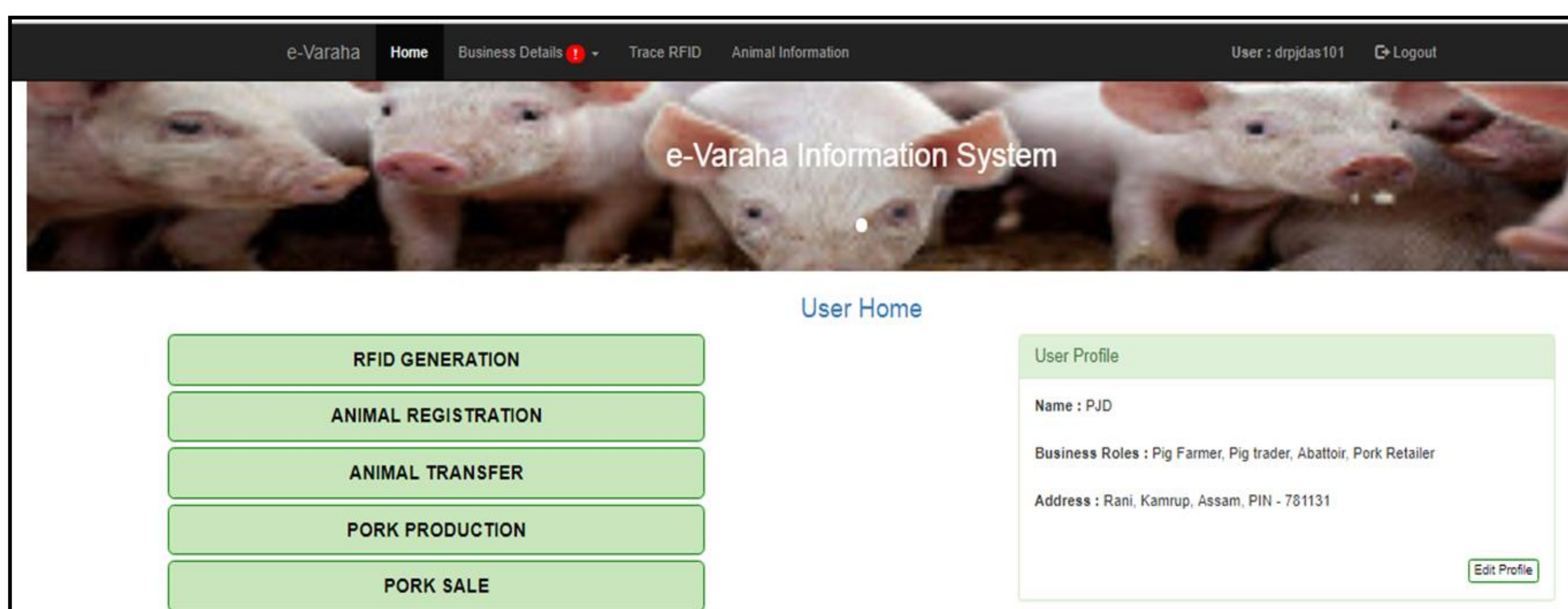
Important Note Working Procedure

Note 1: System works better with clean image
Note 2: Test the system multiple times with different images

Click here to see sample image

- Select image using Choose File button
- Click on the Submit button
- Click on the Process button to view the result
- Go to feedback tab and give your valuable feedback for upgradation

4. Centralize IT based systems for examining health status of slaughter pigs pork safety



e-Varaha Information System

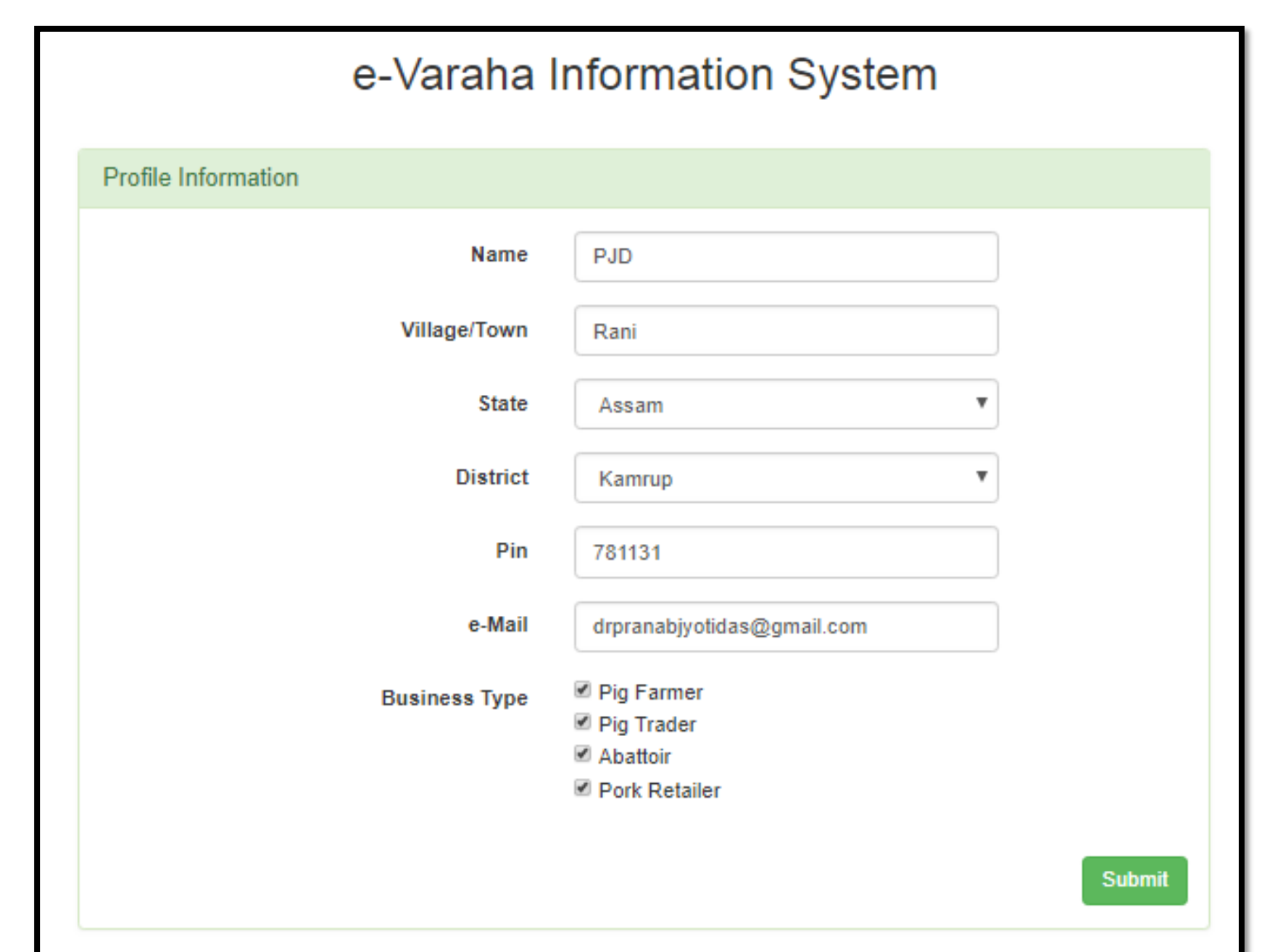
User Home

- RFID GENERATION
- ANIMAL REGISTRATION
- ANIMAL TRANSFER
- PORK PRODUCTION
- PORK SALE

User Profile

Name: PJD
Business Roles: Pig Farmer, Pig trader, Abattoir, Pork Retailer
Address: Rani, Kamrup, Assam, PIN - 781131

Edit Profile



e-Varaha Information System

Profile Information

Name: PJD
Village/Town: Rani
State: Assam
District: Kamrup
Pin: 781131
e-Mail: dipranabjyotidas@gmail.com

Business Type

- Pig Farmer
- Pig Trader
- Abattoir
- Pork Retailer

Submit

Highlighted Features

- ❖ Desktop application for online data entry- http://www.iitg.ac.in/cseweb/tts/evaraha/survey_valid/index.php (Pig farmers, Pig traders , Slaughter house and Policymakers)
- ❖ Development of IT-based systems for examining health status pigs- <http://www.iitg.ac.in/cseweb/ddd> (Pig farmers, Slaughter house and Veterinarian)
- ❖ An IT-based system to identify parasitic load in a faecal matter of pigs - <http://agnee.tezu.ernet.in:8022/varaha/> (Pig farmers, Slaughter house and Veterinarian and Para-vets)
- ❖ Online Piggery information system- http://www.iitg.ac.in/cseweb/tts/evaraha/evaraha_system/index.php (Pig farmers, Pig traders , Slaughter house)
- ❖ Development of tools for identification and traceability of pig & pork- http://www.iitg.ac.in/cseweb/tts/evaraha/evaraha_system/index.php (Pig farmers, Pig traders , Slaughter house and Consumers)