A

Project Report

On

“Agricultural Information Management System”

Submitted By

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"Agricultural Information Management System"

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ABOUT IFFCO

IFFCO is among the leading producers of the fertilizers in the world. It has its head office located in NEW DELHI where all the administrative work takes place , it has five fertilizer producing plants at different locations as: KALOL , KANDLA (GUJARAT), AONLA (U.P.),PARADEEP(ORISSA) and PHULPUR (U.P.) .There are 5 zonal offices , 14 state offices ,67 area offices and nearly 500 field officers.

As the organization is vastly spread across the country there must be a media/channel through which they all can get connected so as to work as a team. So, we need a communication Network.

In order to establish a communicating media IFFCO has its own Virtual Private Network which connects all the work places of IFFCO with a NETWORK using MPLS technology. It uses the networks of different service providers as of now BSNL, AIRTEL and TATA.

The bandwidth varies from 2 Mbps to 8 Mbps depending on the importance and traffic.

In the offices according to the requirement they have individual LAN'S (Local Area Network) which again consists of modems, routers, switches and then the communicating devices connected to that network. Each of these has a gateway and every communicating device is assigned a unique id called IP (Internet Protocol) address.

IFFCO's NETWORK

IFFCO WAN consists of about 140 links across the country as shown in picture on next page. 2Mbps links are provided at all plants, zonal and state marketing offices. Six links each of 2Mbps are provided at Head Office (HO) New Delhi. Links of 256 Kbps capacity is provided at each area marketing office. For providing 100% uptime to critical offices, MPLS VPN links from alternate service provider i.e. Bharti Airtel, Tulip is also provided to HO, all plants and zonal offices. In case of primary link at these locations fails, secondary link will take care for WAN connecti Three leased Internet links from two Service Providers (SPs),having total 7Mbps bandwidth are also provided to cater need of web server hosting in IFFCO data center and internet browsing by employees across the country.

For Connecting Head office Delhi, IFFCO, Phulpur unit has 3 links i.e. BSNL 8Mbps, Airtel 8 Mbps and TATA with 6 Mbps. All Links work in load sharing mode for smooth work of IFFCO Global application like ERP, HRMS and HMS etc.

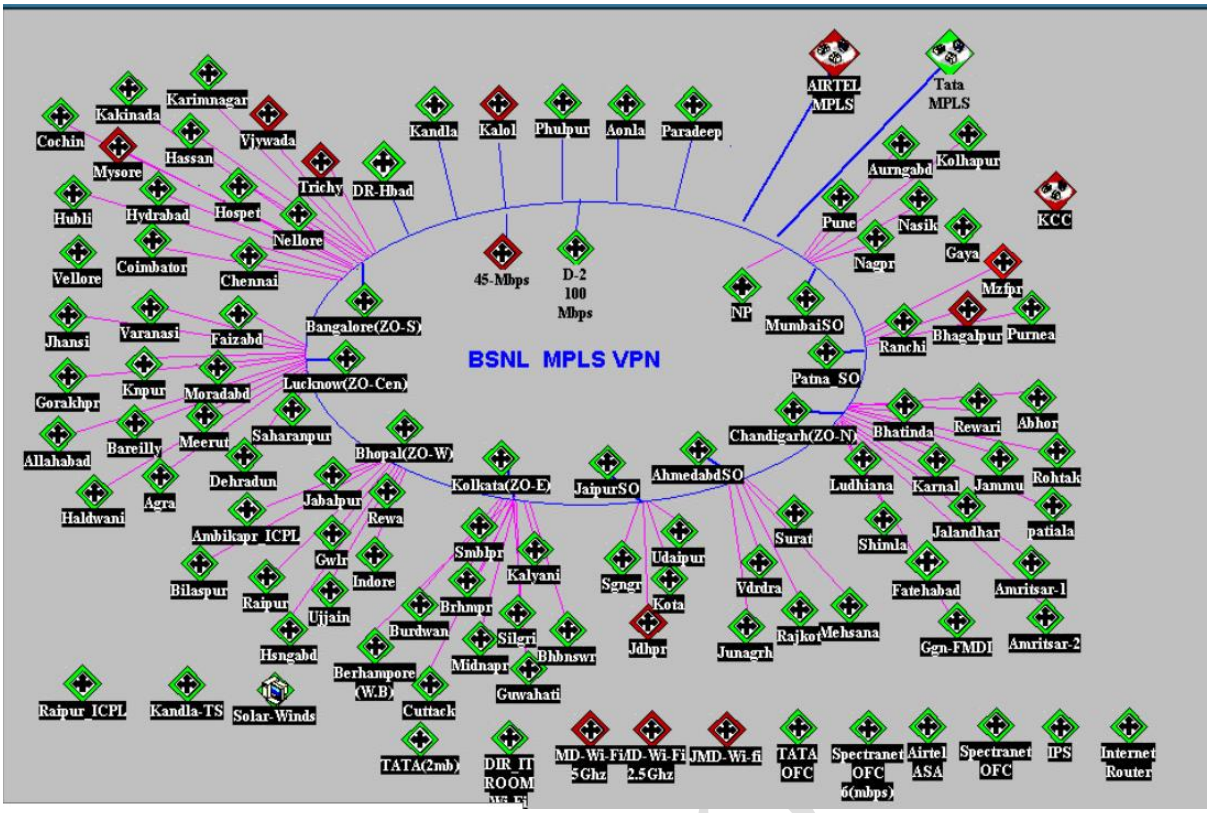
MPLS TECHNOLOGY

MPLS stands for Multi-Protocol Label Switching. MPLS is a versatile solution to address the problem faced by a present day networks, Speed, scalability, quality of service management and traffic engineering. MPLS has emerged as an elegant solution to meet the bandwidth management and service requirements for the next generation internet protocols (IP) based backbone networks. MPLS addresses issues related to scalability and routing (based on QOS and service quality matrices) and can exist over existing asynchronous transfer mode (ATM) and frame relay networks.

MPLS is an internet engineering task force (IETF) - specified framework that provides for the efficient design, routing, forwarding and switching of traffic flows through the network.

MPLS performs the following operations:

- Specifies mechanisms to manage traffic flows of various granularities, such as flows between different hardware, machines or even flows between different applications.
- Remains independent of the layer-2 and layer -3 protocols.
- Provides a means to map IP address to simple, fixed-length labels used by different packet-forwarding and packet switching technologies.
- Interfaces to existing routing protocols such as resource reservation protocol (RSVP) and open shortest path first (OSPF).
- Supports the IP, ATM and frame-relay Layer-2 protocols.



IFFCO PHULPUR SERVER ROOM

The maintenance and storage of important and vital data is done in servers located at IFFCO Phulpur Unit. Due to the security reasons the server setup diagram is not made available but the type of servers used and their operating systems are given below:

Sl. No.	SERVER	Applications / Description	Operating System
1	IFFCOAPP1	Testing of application VMS, Guest house, Lab TRS etc	Windows server2008
2	Database Server	Oracle Database	RHEL-7
3	Application Server	Oracle 12c	RHEL-7
4	Development Server (Virtual)	Oracle 12c	Windows 2012
5	File server	File Transfer	Server 2008
6	Autocad	Autocad 2017	Server 2008
7	Antivirtus	Macfee Antivirus	Server 2008
8	Mail Archive	Lotus note mail Archive	WINDOWS

1. Introduction

Agriculture is the backbone of the Indian Economy"- said Mahatma Gandhi six decades ago. Even today, the situation is still the same, with almost the entire economy being sustained by agriculture, which is the mainstay of the villages. It contributes 16% of the overall GDP and accounts for employment of approximately 52% of the Indian population. Rapid growth in agriculture is essential not only for self-reliance but also to earn valuable foreign exchange.

Indian farmers are second to none in production and productivity despite of the fact that millions are marginal and small farmers. They adopt improved agriculture technology as efficiently as farmers in developed countries. It is felt that with provision of timely and adequate inputs such as fertilizers, seeds, pesticides and by making available affordable agricultural credit /crop insurance, Indian farmers are going to ensure food and nutritional security to the Nation.

It is envisaged to make available relevant information and services to the farming community and private sector through the use of information and communication technologies, to supplement the existing delivery channels provided for by the department. AIMS is an endeavor in this direction to create one stop shop for meeting all informational needs relating to Agriculture, Animal Husbandry and Fisheries sectors production, sale/storage of an Indian farmer. With this Indian Farmer will not be required to sift through maze of websites created for specific purposes

IFFCO Information Hub

Here you can get information and reports related to various Agricultural based inputs and usages like:

- Pesticides
  - Pesticide Dealers Numbers around the Nation
  - Do's & Don'ts while using & applying Pesticides
- Live Stock
- Animal & Birds Diseases & Symptoms
- Search for Diagnostics Laboratories all across the Nation
- Search for Soil Testing Laboratories all across the Nation
- Agricultural Export Zones
- Animal Census
- Fertilizers
  - Fertilizers Dealers Numbers around the Nation
  - Do's & Don'ts while using & applying Fertilizers
- Indian Pest Management POP
- etc.

Various Statistical Databases

1	ALL INDIA STATISTICS ON AREA UNDER CULTIVATION AND UNDER USE OF CHEMICAL & BIO- PESTICIDES DURING 2010-11 TO 2015-16	Details
2	Average Prices of the key Pesticides (Indigenous) during 2010-11 to 2015-16	Details
3	PESTICIDEWISE STATISTICS OF IMPORT OF PESTICIDES DURING 2010-11 TO 2015-16	Details
4	PRODUCTION OF KEY PESTICIDES DURING 2010-11 TO 2015-16	Details
5	PESTICIDEWISE STATISTICS OF EXPORT OF PESTICIDES DURING 2010-11 TO 2015-16	Details
6	PESTICIDEWISE (IMPORTED) DEMAND DURING 2013-14 TO 2015-16	Details
7	PESTICIDEWISE (INDIGINEOUS) DEMAND DURING 2010-11 TO 2015-16	Details
8	PESTICIDEWISE CONSUMPTION OF IMPORTED PESTICIDES DURING 2010-11 TO 2015-16	Details
9	PESTICIDEWISE CONSUMPTION OF INDIGENOUS PESTICIDES DURING 2010-11 TO 2015-16	Details

About IFFCO Products

This module provides information about various products developed by IFFCO used as inputs by farmers during production. Like:

- DI- SODIUM TETRA BORATE PENTA HYDRATE
- PRIMARY NUTRIENTS: -
  - UREA
  - NPK
  - NP
  - DAP
- WATER SOLUBLE FERTILISER
- CALCIUM NITRATE
- POTASSIUM SULPHATE
- BENTONITE SULPHUR
- BIO FERTILISER
- SECONDARY AND MICRONUTRIENTS
- PLANT GROWTH PROMOTER-
  - SAGARIKA

Screeshots of above Information Hub, About Products, etc. are available below.

1.2 Operating Environment-Hardware and Software: -

Hardware Requirements: -

Hard disk- 128 GB
RAM – 2 GB

Software Requirements: -

Any web browser
Php
Weka Data Mining Tool
Windows 7 or above

1.3 Technology Used: -

Frontend: -

HTML, CSS, JavaScript, Bootstrap

Backend: -

Php for Server side Scripting, MySQL

PROPOSED SYSTEM

2.1. Proposed System: -

Any user can retrieve data form the Information System. Authenticated users in each major Institute are given permission to insert information though the internet but not to delete. Only data administrator can delete unnecessary information and modify the database. The database being centralized throughout the company that could be spread world-wide the entire details of the employees is a available to the management for their perusal.

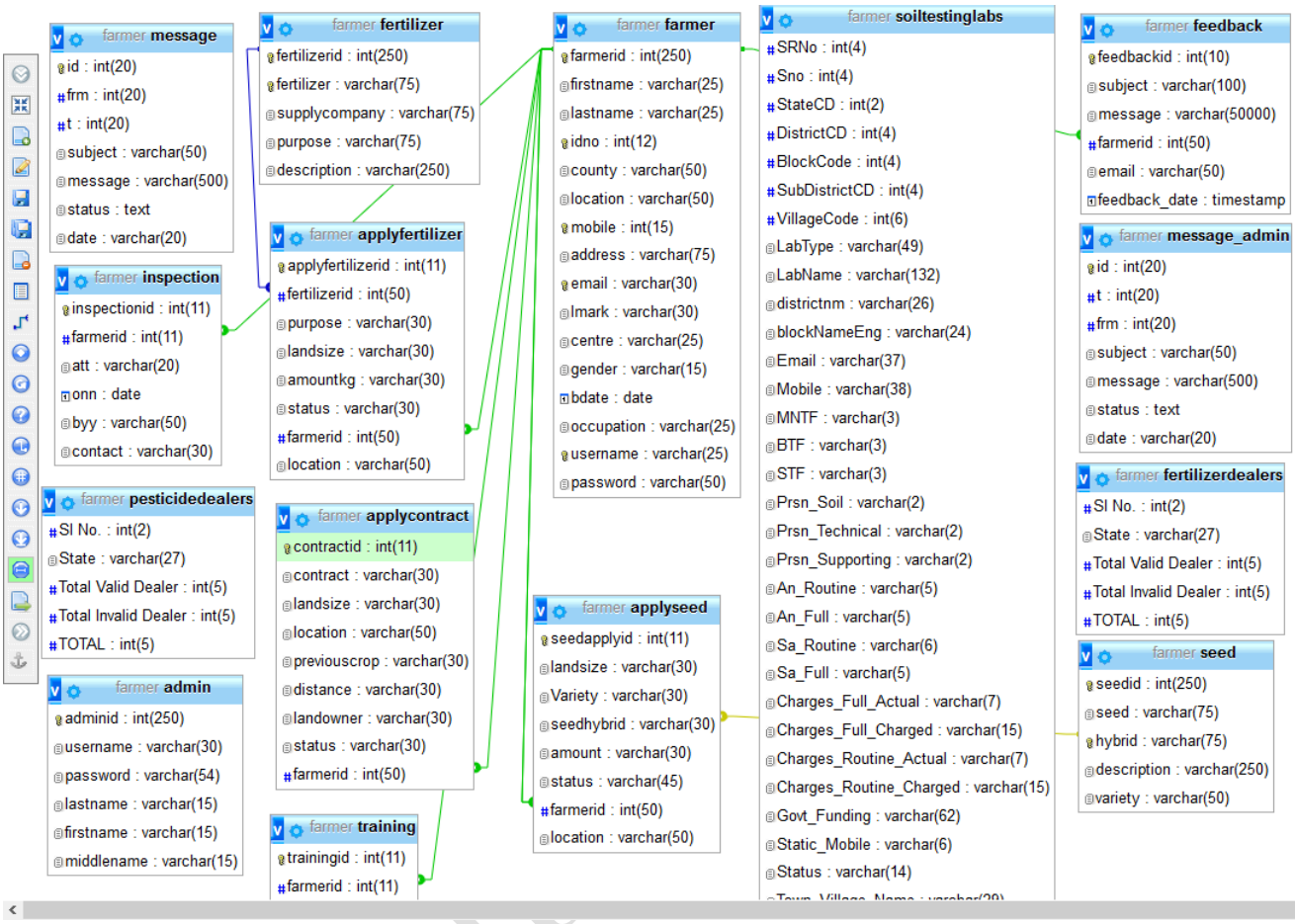
2.2. Objectives of System: -

Our objective is to introduce an agricultural information system on the Internet so that it will eventually allow potential users to query and obtain the desired information. The data of this system is to be stored using a central database and maintained by the main research institutes. System is to be portable as the computer system that maintains this data may change from time to time.

AIMS is a space for accessing and discussing agricultural information management standards, tools and methodologies connecting information workers worldwide to build a global community of practice. Information management standards, tools and good practices can be found on AIMS:

- to provide advice on how to best manage, disseminate, share and exchange agricultural scientific information;
- to promote good practices widely applicable and easy to implement, and;
- to foster communities of practices centred on interoperability, reusability and cooperation.

3.1 Entity-Relation Diagram



3.2 Backend MySQL DB Generation

```
-- phpMyAdmin SQL Dump
-- version 4.5.1
-- http://www.phpmyadmin.net
--
-- Host: 127.0.0.1
-- Server version: 10.1.16-MariaDB
-- PHP Version: 5.6.24

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET time_zone = "+00:00";


/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;

--
-- Database: `farmer`
--

-- --------------------------------------------------------

--
-- Table structure for table `admin`
--

CREATE TABLE `admin` (
  `adminid` int(250) NOT NULL,
  `username` varchar(30) NOT NULL,
  `password` varchar(54) NOT NULL,
  `lastname` varchar(15) NOT NULL,
  `firstname` varchar(15) NOT NULL,
  `middlename` varchar(15) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `admin`:
--

-- --------------------------------------------------------

--
-- Table structure for table `agriexportzones`
--

CREATE TABLE `agriexportzones` (
  `Sno.` int(3) DEFAULT NULL,
  `PRODUCT` varchar(26) DEFAULT NULL,
  `STATE` varchar(17) DEFAULT NULL,
  `DISTRICT` varchar(35) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `agriexportzones`:
--

-- --------------------------------------------------------
```

```
--
-- Table structure for table `animal_census`
--

CREATE TABLE `animal_census` (
  `State_Code` int(2) NOT NULL,
  `State_Name` varchar(25) DEFAULT NULL,
  `Buffaloes` int(8) DEFAULT NULL,
  `Dogs` int(7) DEFAULT NULL,
  `Goat` int(8) DEFAULT NULL,
  `Horses` int(6) DEFAULT NULL,
  `Mithuns` int(6) DEFAULT NULL,
  `Mules` int(5) DEFAULT NULL,
  `Camel` int(6) DEFAULT NULL,
  `Cattle` int(8) DEFAULT NULL,
  `Donkey` int(5) DEFAULT NULL,
  `Elephant` int(4) DEFAULT NULL,
  `Pigs` int(7) DEFAULT NULL,
  `Rabbit` int(6) DEFAULT NULL,
  `Sheep` int(8) DEFAULT NULL,
  `Yaks` int(5) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `animal_census`:
--

-- --------------------------------------------------------

--
-- Table structure for table `applycontract`
--

CREATE TABLE `applycontract` (
  `contractid` int(11) NOT NULL,
  `contract` varchar(30) NOT NULL,
  `landsize` int(30) UNSIGNED NOT NULL,
  `location` varchar(50) NOT NULL,
  `previouscrop` varchar(30) NOT NULL,
  `distance` int(30) UNSIGNED NOT NULL,
  `landowner` varchar(30) NOT NULL,
  `status` enum('Rejected','Approved','Pending') NOT NULL,
  `farmerid` int(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `applycontract`:
--   `farmerid`
--       `farmer` -> `farmerid`
--

-- --------------------------------------------------------

--
-- Table structure for table `applyfertilizer`
--

CREATE TABLE `applyfertilizer` (
  `applyfertilizerid` int(11) NOT NULL,
  `fertilizerid` int(50) NOT NULL,
  `purpose` varchar(30) NOT NULL,
  `landsize` int(30) UNSIGNED NOT NULL,
  `amountkg` int(30) UNSIGNED NOT NULL,
  `status` enum('Rejected','Approved','Pending') NOT NULL,
```

```
  `farmerid` int(50) NOT NULL,
  `location` varchar(50) NOT NULL,
  `fertilizer` varchar(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `applyfertilizer`:
--   `farmerid`
--       `farmer` -> `farmerid`
--   `fertilizerid`
--       `fertilizer` -> `fertilizerid`
--

-- --------------------------------------------------------

--
-- Table structure for table `applyseed`
--

CREATE TABLE `applyseed` (
  `seedapplyid` int(11) NOT NULL,
  `landsize` double UNSIGNED NOT NULL,
  `Variety` varchar(30) NOT NULL,
  `seedhybrid` varchar(30) NOT NULL,
  `amount` double UNSIGNED NOT NULL,
  `status` enum('Rejected','Approved','Pending') NOT NULL,
  `farmerid` int(50) NOT NULL,
  `location` varchar(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `applyseed`:
--   `farmerid`
--       `farmer` -> `farmerid`
--   `farmerid`
--       `farmer` -> `farmerid`
--   `seedhybrid`
--       `seed` -> `hybrid`
--

-- --------------------------------------------------------

--
-- Table structure for table `avgpricespesticides`
--

CREATE TABLE `avgpricespesticides` (
  `S. No.` int(3) NOT NULL,
  `Pesticides` varchar(50) DEFAULT NULL,
  `Group` varchar(3) DEFAULT NULL,
  `2010-11` float DEFAULT NULL,
  `2011-12` float DEFAULT NULL,
  `2012-13` float DEFAULT NULL,
  `2013-14` float DEFAULT NULL,
  `2014-15` float DEFAULT NULL,
  `2015-16 (As on 09.11.2016)` float DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `avgpricespesticides`:
--

-- --------------------------------------------------------
```

```
--
-- Table structure for table `diagnostics_lab`
--

CREATE TABLE `diagnostics_lab` (
  `SNo` int(2) DEFAULT NULL,
  `State_Name` varchar(20) DEFAULT NULL,
  `District Name` varchar(27) DEFAULT NULL,
  `ADDL` varchar(50) DEFAULT NULL,
  `Person Name` varchar(57) DEFAULT NULL,
  `Mobile` varchar(10) DEFAULT NULL,
  `Contact No` varchar(10) DEFAULT NULL,
  `Fax No` varchar(10) DEFAULT NULL,
  `EMail` varchar(33) DEFAULT NULL,
  `Address` varchar(153) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `diagnostics_lab`:
--

-- --------------------------------------------------------

--
-- Table structure for table `disease`
--

CREATE TABLE `disease` (
  `Species_Name` varchar(13) DEFAULT NULL,
  `Disease_Name` varchar(47) DEFAULT NULL,
  `DiseaseSymptoms` mediumtext
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `disease`:
--

-- --------------------------------------------------------

--
-- Table structure for table `farmer`
--

CREATE TABLE `farmer` (
  `farmerid` int(250) NOT NULL,
  `firstname` varchar(25) NOT NULL,
  `lastname` varchar(25) NOT NULL,
  `idno` int(12) NOT NULL,
  `county` varchar(50) NOT NULL,
  `location` varchar(50) NOT NULL,
  `mobile` int(10) NOT NULL,
  `address` varchar(75) NOT NULL,
  `email` varchar(30) NOT NULL,
  `lmark` varchar(30) NOT NULL,
  `centre` varchar(25) NOT NULL,
  `gender` varchar(15) NOT NULL,
  `bdate` date NOT NULL,
  `occupation` varchar(25) NOT NULL,
  `username` varchar(25) NOT NULL,
  `password` varchar(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `farmer`:
```

```
--

-- --------------------------------------------------------

--
-- Table structure for table `feedback`
--

CREATE TABLE `feedback` (
  `feedbackid` int(10) NOT NULL,
  `subject` varchar(100) NOT NULL,
  `message` varchar(50000) NOT NULL,
  `farmerid` int(50) NOT NULL,
  `email` varchar(50) NOT NULL,
  `feedback_date` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `feedback`:
--   `farmerid`
--       `farmer` -> `farmerid`
--

-- --------------------------------------------------------

--
-- Table structure for table `fertilizer`
--

CREATE TABLE `fertilizer` (
  `fertilizerid` int(250) NOT NULL,
  `fertilizer` varchar(75) NOT NULL,
  `supplycompany` varchar(75) NOT NULL,
  `purpose` varchar(75) NOT NULL,
  `description` varchar(250) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `fertilizer`:
--

-- --------------------------------------------------------

--
-- Table structure for table `fertilizerdealers`
--

CREATE TABLE `fertilizerdealers` (
  `Sl No.` int(2) DEFAULT NULL,
  `State` varchar(27) DEFAULT NULL,
  `Total Valid Dealer` int(5) DEFAULT NULL,
  `Total Invalid Dealer` int(5) DEFAULT NULL,
  `TOTAL` int(5) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `fertilizerdealers`:
--

-- --------------------------------------------------------

--
-- Table structure for table `filesave`
```

```
--

CREATE TABLE `filesave` (
  `fid` int(11) NOT NULL,
  `name` varchar(50) NOT NULL,
  `url` varchar(100) NOT NULL,
  `type` varchar(5) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `filesave`:
--

-- --------------------------------------------------------

--
-- Table structure for table `inspection`
--

CREATE TABLE `inspection` (
  `inspectionid` int(11) NOT NULL,
  `farmerid` int(11) NOT NULL,
  `att` varchar(20) NOT NULL,
  `onn` date NOT NULL,
  `byy` varchar(50) NOT NULL,
  `contact` varchar(30) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `inspection`:
--   `farmerid`
--       `farmer` -> `farmerid`
--

-- --------------------------------------------------------

--
-- Table structure for table `kitfze_commodities`
--

CREATE TABLE `kitfze_commodities` (
  `from_year` int(2) NOT NULL,
  `to_year` int(2) NOT NULL,
  `commodity` varchar(70) NOT NULL,
  `volume` double NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `kitfze_commodities`:
--

-- --------------------------------------------------------

--
-- Table structure for table `message`
--

CREATE TABLE `message` (
  `id` int(20) NOT NULL,
  `frm` int(20) NOT NULL,
  `t` int(20) NOT NULL,
  `subject` varchar(50) NOT NULL,
  `message` varchar(500) NOT NULL,
  `status` text NOT NULL,
```

```
  `date` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `message`:
--

-- --------------------------------------------------------

--
-- Table structure for table `message_admin`
--

CREATE TABLE `message_admin` (
  `id` int(20) NOT NULL,
  `t` int(20) NOT NULL,
  `frm` int(20) NOT NULL,
  `subject` varchar(50) NOT NULL,
  `message` varchar(500) NOT NULL,
  `status` text NOT NULL,
  `date` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `message_admin`:
--

-- --------------------------------------------------------

--
-- Table structure for table `pesticidedealers`
--

CREATE TABLE `pesticidedealers` (
  `Sl No.` int(2) DEFAULT NULL,
  `State` varchar(27) DEFAULT NULL,
  `Total Valid Dealer` int(5) DEFAULT NULL,
  `Total Invalid Dealer` int(5) DEFAULT NULL,
  `TOTAL` int(5) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `pesticidedealers`:
--

-- --------------------------------------------------------

--
-- Table structure for table `productionseeds`
--

CREATE TABLE `productionseeds` (
  `CROP` varchar(12) DEFAULT NULL,
  `2002-03` decimal(5,4) DEFAULT NULL,
  `2003-04` decimal(5,4) DEFAULT NULL,
  `2004-05` decimal(5,4) DEFAULT NULL,
  `2005-06` decimal(5,4) DEFAULT NULL,
  `2006-07` decimal(5,4) DEFAULT NULL,
  `2007-08` decimal(5,4) DEFAULT NULL,
  `2008-09` decimal(5,4) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `productionseeds`:
```

```
--

-- --------------------------------------------------------

--
-- Table structure for table `seed`
--

CREATE TABLE `seed` (
  `seedid` int(250) NOT NULL,
  `seed` varchar(75) NOT NULL,
  `hybrid` varchar(75) NOT NULL,
  `description` varchar(250) NOT NULL,
  `variety` varchar(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `seed`:
--

-- --------------------------------------------------------

--
-- Table structure for table `seeds`
--

CREATE TABLE `seeds` (
  `Name` varchar(100) NOT NULL,
  `Price` float NOT NULL,
  `Amount` float NOT NULL,
  `Availability` tinyint(1) NOT NULL,
  `discount` int(11) NOT NULL,
  `Plant Type` varchar(50) NOT NULL,
  `First Marketable Produce` varchar(50) NOT NULL,
  `Fruit Shape` varchar(50) NOT NULL,
  `Fruit Colour` varchar(50) NOT NULL,
  `Fruit Length` varchar(50) NOT NULL,
  `Fruit Girth` varchar(10) NOT NULL,
  `Average Fruit Weight` varchar(20) NOT NULL,
  `Prickles` varchar(30) NOT NULL,
  `Special Characters` text NOT NULL,
  `Sowing Season` text NOT NULL,
  `Recommended Locality for Sowing` varchar(20) NOT NULL,
  `Manufactured by` varchar(60) NOT NULL,
  `Marketed by` varchar(60) NOT NULL,
  `Sold by` varchar(40) NOT NULL,
  `fid` int(11) NOT NULL,
  `seedid` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `seeds`:
--   `fid`
--       `filesave` -> `fid`
--

-- --------------------------------------------------------

--
-- Table structure for table `seedvariety`
--

CREATE TABLE `seedvariety` (
  `Type` varchar(21) DEFAULT NULL,
```

```
  `crop` varchar(28) DEFAULT NULL,
  `hybrid` varchar(68) DEFAULT NULL,
  `2009` varchar(47) DEFAULT NULL,
  `2010` varchar(41) DEFAULT NULL,
  `2011` varchar(46) DEFAULT NULL,
  `2012` varchar(62) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `seedvariety`:
--

-- --------------------------------------------------------

--
-- Table structure for table `soiltestinglabs`
--

CREATE TABLE `soiltestinglabs` (
  `SRNo` int(4) DEFAULT NULL,
  `Sno` int(4) DEFAULT NULL,
  `StateCD` int(2) DEFAULT NULL,
  `DistrictCD` int(4) DEFAULT NULL,
  `BlockCode` int(4) DEFAULT NULL,
  `SubDistrictCD` int(4) DEFAULT NULL,
  `VillageCode` int(6) DEFAULT NULL,
  `LabType` varchar(49) DEFAULT NULL,
  `LabName` varchar(132) DEFAULT NULL,
  `districtnm` varchar(26) DEFAULT NULL,
  `blockNameEng` varchar(24) DEFAULT NULL,
  `Email` varchar(37) DEFAULT NULL,
  `Mobile` varchar(38) DEFAULT NULL,
  `MNTF` varchar(3) DEFAULT NULL,
  `BTF` varchar(3) DEFAULT NULL,
  `STF` varchar(3) DEFAULT NULL,
  `Prsn_Soil` varchar(2) DEFAULT NULL,
  `Prsn_Technical` varchar(2) DEFAULT NULL,
  `Prsn_Supporting` varchar(2) DEFAULT NULL,
  `An_Routine` varchar(5) DEFAULT NULL,
  `An_Full` varchar(5) DEFAULT NULL,
  `Sa_Routine` varchar(6) DEFAULT NULL,
  `Sa_Full` varchar(5) DEFAULT NULL,
  `Charges_Full_Actual` varchar(7) DEFAULT NULL,
  `Charges_Full_Charged` varchar(15) DEFAULT NULL,
  `Charges_Routine_Actual` varchar(7) DEFAULT NULL,
  `Charges_Routine_Charged` varchar(15) DEFAULT NULL,
  `Govt_Funding` varchar(62) DEFAULT NULL,
  `Static_Mobile` varchar(6) DEFAULT NULL,
  `Status` varchar(14) DEFAULT NULL,
  `Town_Village_Name` varchar(29) DEFAULT NULL,
  `SubDistName` varchar(21) DEFAULT NULL,
  `statenm` varchar(17) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `soiltestinglabs`:
--

-- --------------------------------------------------------

--
-- Table structure for table `table 17`
--
```

```
CREATE TABLE `table 17` (
  `COL 1` varchar(31) DEFAULT NULL,
  `COL 2` varchar(6) DEFAULT NULL,
  `COL 3` varchar(6) DEFAULT NULL,
  `COL 4` varchar(6) DEFAULT NULL,
  `COL 5` varchar(6) DEFAULT NULL,
  `COL 6` varchar(6) DEFAULT NULL,
  `COL 7` varchar(6) DEFAULT NULL,
  `COL 8` varchar(6) DEFAULT NULL,
  `COL 9` varchar(6) DEFAULT NULL,
  `COL 10` varchar(5) DEFAULT NULL,
  `COL 11` varchar(5) DEFAULT NULL,
  `COL 12` varchar(5) DEFAULT NULL,
  `COL 13` varchar(5) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `table 17`:
--

-- --------------------------------------------------------

--
-- Table structure for table `table 27`
--

CREATE TABLE `table 27` (
  `State_Name` varchar(27) DEFAULT NULL,
  `District_Name` varchar(24) DEFAULT NULL,
  `Crop_Year` int(4) DEFAULT NULL,
  `Season` varchar(11) DEFAULT NULL,
  `Crop` varchar(25) DEFAULT NULL,
  `Area` decimal(9,2) DEFAULT NULL,
  `Production` varchar(12) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `table 27`:
--

-- --------------------------------------------------------

--
-- Table structure for table `table 28`
--

CREATE TABLE `table 28` (
  `State_Name` varchar(27) DEFAULT NULL,
  `District_Name` varchar(24) DEFAULT NULL,
  `Crop_Year` int(4) DEFAULT NULL,
  `Season` varchar(11) DEFAULT NULL,
  `Crop` varchar(25) DEFAULT NULL,
  `Area` decimal(9,2) DEFAULT NULL,
  `Production` varchar(12) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

--
-- RELATIONS FOR TABLE `table 28`:
--

-- --------------------------------------------------------

--
-- Table structure for table `training`
```

```
--

CREATE TABLE `training` (
  `trainingid` int(11) NOT NULL,
  `farmerid` int(11) NOT NULL,
  `fro` date NOT NULL,
  `t` date NOT NULL,
  `wher` varchar(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- RELATIONS FOR TABLE `training`:
--   `farmerid`
--       `farmer` -> `farmerid`
--

--
-- Indexes for dumped tables
--

--
-- Indexes for table `admin`
--
ALTER TABLE `admin`
  ADD PRIMARY KEY (`adminid`);

--
-- Indexes for table `animal_census`
--
ALTER TABLE `animal_census`
  ADD PRIMARY KEY (`State_Code`);

--
-- Indexes for table `applycontract`
--
ALTER TABLE `applycontract`
  ADD PRIMARY KEY (`contractid`),
  ADD KEY `farmerid` (`farmerid`);

--
-- Indexes for table `applyfertilizer`
--
ALTER TABLE `applyfertilizer`
  ADD PRIMARY KEY (`applyfertilizerid`),
  ADD KEY `farmerid` (`farmerid`),
  ADD KEY `fertilizerid` (`fertilizerid`);

--
-- Indexes for table `applyseed`
--
ALTER TABLE `applyseed`
  ADD PRIMARY KEY (`seedapplyid`),
  ADD KEY `farmerid` (`farmerid`),
  ADD KEY `seedhybrid` (`seedhybrid`);

--
-- Indexes for table `avgpricespesticides`
--
ALTER TABLE `avgpricespesticides`
  ADD PRIMARY KEY (`S. No.`);

--
-- Indexes for table `farmer`
--
```

```
ALTER TABLE `farmer`
  ADD PRIMARY KEY (`farmerid`),
  ADD UNIQUE KEY `idno` (`idno`),
  ADD UNIQUE KEY `email` (`email`),
  ADD UNIQUE KEY `username` (`username`),
  ADD UNIQUE KEY `mobile` (`mobile`),
  ADD UNIQUE KEY `email_2` (`email`),
  ADD KEY `mobile_2` (`mobile`,`email`);

--
-- Indexes for table `feedback`
--
ALTER TABLE `feedback`
  ADD PRIMARY KEY (`feedbackid`),
  ADD KEY `farmerid` (`farmerid`);

--
-- Indexes for table `fertilizer`
--
ALTER TABLE `fertilizer`
  ADD PRIMARY KEY (`fertilizerid`),
  ADD UNIQUE KEY `fertilizer` (`fertilizer`);

--
-- Indexes for table `filesave`
--
ALTER TABLE `filesave`
  ADD PRIMARY KEY (`fid`);

--
-- Indexes for table `inspection`
--
ALTER TABLE `inspection`
  ADD PRIMARY KEY (`inspectionid`),
  ADD KEY `farmerid` (`farmerid`);

--
-- Indexes for table `message`
--
ALTER TABLE `message`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `message_admin`
--
ALTER TABLE `message_admin`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `seed`
--
ALTER TABLE `seed`
  ADD PRIMARY KEY (`seedid`),
  ADD UNIQUE KEY `hybrid` (`hybrid`);

--
-- Indexes for table `seeds`
--
ALTER TABLE `seeds`
  ADD PRIMARY KEY (`seedid`),
  ADD KEY `fid` (`fid`);

--
-- Indexes for table `training`
```

```
--
ALTER TABLE `training`
  ADD PRIMARY KEY (`farmerid`,`fro`,`t`,`wher`),
  ADD UNIQUE KEY `unique_index` (`trainingid`,`farmerid`,`fro`,`t`,`wher`);

--
-- AUTO_INCREMENT for dumped tables
--

--
-- AUTO_INCREMENT for table `admin`
--
ALTER TABLE `admin`
  MODIFY `adminid` int(250) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
--
-- AUTO_INCREMENT for table `applycontract`
--
ALTER TABLE `applycontract`
  MODIFY `contractid` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=9;
--
-- AUTO_INCREMENT for table `applyfertilizer`
--
ALTER TABLE `applyfertilizer`
  MODIFY `applyfertilizerid` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=11;
--
-- AUTO_INCREMENT for table `applyseed`
--
ALTER TABLE `applyseed`
  MODIFY `seedapplyid` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;
--
-- AUTO_INCREMENT for table `farmer`
--
ALTER TABLE `farmer`
  MODIFY `farmerid` int(250) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=42;
--
-- AUTO_INCREMENT for table `feedback`
--
ALTER TABLE `feedback`
  MODIFY `feedbackid` int(10) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT for table `fertilizer`
--
ALTER TABLE `fertilizer`
  MODIFY `fertilizerid` int(250) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
--
-- AUTO_INCREMENT for table `filesave`
--
ALTER TABLE `filesave`
  MODIFY `fid` int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT for table `inspection`
--
ALTER TABLE `inspection`
  MODIFY `inspectionid` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
--
-- AUTO_INCREMENT for table `message`
--
ALTER TABLE `message`
  MODIFY `id` int(20) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
--
-- AUTO_INCREMENT for table `message_admin`
--
ALTER TABLE `message_admin`
```

```
  MODIFY `id` int(20) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;
--
-- AUTO_INCREMENT for table `seed`
--
ALTER TABLE `seed`
  MODIFY `seedid` int(250) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;
--
-- AUTO_INCREMENT for table `seeds`
--
ALTER TABLE `seeds`
  MODIFY `seedid` int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT for table `training`
--
ALTER TABLE `training`
  MODIFY `trainingid` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=12;
--
-- Constraints for dumped tables
--

--
-- Constraints for table `applycontract`
--
ALTER TABLE `applycontract`
  ADD CONSTRAINT `applycontract_ibfk_1` FOREIGN KEY (`farmerid`) REFERENCES
`farmer` (`farmerid`);

--
-- Constraints for table `applyfertilizer`
--
ALTER TABLE `applyfertilizer`
  ADD CONSTRAINT `applyfertilizer_ibfk_1` FOREIGN KEY (`farmerid`) REFERENCES
`farmer` (`farmerid`),
  ADD CONSTRAINT `applyfertilizer_ibfk_2` FOREIGN KEY (`fertilizerid`)
REFERENCES `fertilizer` (`fertilizerid`);

--
-- Constraints for table `applyseed`
--
ALTER TABLE `applyseed`
  ADD CONSTRAINT `applyseed_ibfk_1` FOREIGN KEY (`farmerid`) REFERENCES
`farmer` (`farmerid`),
  ADD CONSTRAINT `applyseed_ibfk_2` FOREIGN KEY (`farmerid`) REFERENCES
`farmer` (`farmerid`),
  ADD CONSTRAINT `applyseed_ibfk_3` FOREIGN KEY (`seedhybrid`) REFERENCES
`seed` (`hybrid`);

--
-- Constraints for table `feedback`
--
ALTER TABLE `feedback`
  ADD CONSTRAINT `feedback_ibfk_1` FOREIGN KEY (`farmerid`) REFERENCES `farmer`
(`farmerid`);

--
-- Constraints for table `inspection`
--
ALTER TABLE `inspection`
  ADD CONSTRAINT `inspection_ibfk_1` FOREIGN KEY (`farmerid`) REFERENCES
`farmer` (`farmerid`);

--
-- Constraints for table `seeds`
--
```

```
ALTER TABLE `seeds`
  ADD CONSTRAINT `seeds_ibfk_1` FOREIGN KEY (`fid`) REFERENCES `filesave`
(`fid`);

--
-- Constraints for table `training`
--
ALTER TABLE `training`
  ADD CONSTRAINT `training_ibfk_1` FOREIGN KEY (`farmerid`) REFERENCES `farmer`
(`farmerid`);

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

3.3 Database Dictionary

admin

Column	Type	Null	Default	Links to	Comments	MIME
adminid (Primary)	int(250)	No				
username	varchar(30)	No				
password	varchar(54)	No				
lastname	varchar(15)	No				
firstname	varchar(15)	No				
middlename	varchar(15)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	adminid	2	A	No	

agriexportzones

Column	Type	Null	Default	Links to	Comments	MIME
Sno.	int(3)	Yes	NULL			
PRODUCT	varchar(26)	Yes	NULL			
STATE	varchar(17)	Yes	NULL			
DISTRICT	varchar(35)	Yes	NULL			

animal_census

Column	Type	Null	Default	Links to	Comments	MIME
State_Code (Primary)	int(2)	No				
State_Name	varchar(25)	Yes	NULL			
Buffaloes	int(8)	Yes	NULL			
Dogs	int(7)	Yes	NULL			
Goat	int(8)	Yes	NULL			
Horses	int(6)	Yes	NULL			
Mithuns	int(6)	Yes	NULL			
Mules	int(5)	Yes	NULL			
Camel	int(6)	Yes	NULL			
Cattle	int(8)	Yes	NULL			
Donkey	int(5)	Yes	NULL			
Elephant	int(4)	Yes	NULL			
Pigs	int(7)	Yes	NULL			
Rabbit	int(6)	Yes	NULL			
Sheep	int(8)	Yes	NULL			
Yaks	int(5)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	State_Code	35	A	No	

applycontract

Column	Type	Null	Default	Links to	Comments	MIME
contractid (Primary)	int(11)	No				
contract	varchar(30)	No				
landsize	int(30)	No				
location	varchar(50)	No				
previouscrop	varchar(30)	No				
distance	int(30)	No				
landowner	varchar(30)	No				
status	enum('Rejected', 'Approved', 'Pending')	No				
farmerid	int(50)	No		farmer -> farmerid		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	contractid	6	A	No	
farmerid	BTREE	No	No	farmerid	2	A	No	

applyfertilizer

Column	Type	Null	Default	Links to	Comments	MIME
applyfertilizerid (Primary)	int(11)	No				
fertilizerid	int(50)	No		fertilizer -> fertilizerid		
purpose	varchar(30)	No				
landsize	int(30)	No				
amountkg	int(30)	No				
status	enum('Rejected', 'Approved', 'Pending')	No				
farmerid	int(50)	No		farmer -> farmerid		
location	varchar(50)	No				
fertilizer	varchar(50)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	applyfertilizerid	3	A	No	
farmerid	BTREE	No	No	farmerid	3	A	No	
fertilizerid	BTREE	No	No	fertilizerid	3	A	No	

applyseed

Column	Type	Null	Default	Links to	Comments	MIME
seedapplyid (Primary)	int(11)	No				
landsize	double	No				
Variety	varchar(30)	No				
seedhybrid	varchar(30)	No		seed -> hybrid		
amount	double	No				
status	enum('Rejected', 'Approved', 'Pending')	No				
farmerid	int(50)	No		farmer -> farmerid		
location	varchar(50)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	seedapplyid	5	A	No	

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
farmerid	BTREE	No	No	farmerid	5	A	No	
seedhybrid	BTREE	No	No	seedhybrid	5	A	No	

avgpricespesticides

Column	Type	Null	Default	Links to	Comments	MIME
S. No. (Primary)	int(3)	No				
Pesticides	varchar(50)	Yes	NULL			
Group	varchar(3)	Yes	NULL			
2010-11	float	Yes	NULL			
2011-12	float	Yes	NULL			
2012-13	float	Yes	NULL			
2013-14	float	Yes	NULL			
2014-15	float	Yes	NULL			
2015-16 (As on 09.11.2016)	float	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	S. No.	217	A	No	

diagnostics_lab

Column	Type	Null	Default	Links to	Comments	MIME
SNo	int(2)	Yes	NULL			
State_Name	varchar(20)	Yes	NULL			
District Name	varchar(27)	Yes	NULL			
ADDL	varchar(50)	Yes	NULL			
Person Name	varchar(57)	Yes	NULL			
Mobile	varchar(10)	Yes	NULL			
Contact No	varchar(10)	Yes	NULL			
Fax No	varchar(10)	Yes	NULL			
EMail	varchar(33)	Yes	NULL			
Address	varchar(153)	Yes	NULL			

disease

Column	Type	Null	Default	Links to	Comments	MIME
Species_Name	varchar(13)	Yes	NULL			
Disease_Name	varchar(47)	Yes	NULL			
DiseaseSymptoms	mediumtext	Yes	NULL			

farmer

Column	Type	Null	Default	Links to	Comments	MIME
farmerid *(Primary)*	int(250)	No				
firstname	varchar(25)	No				
lastname	varchar(25)	No				
idno	int(12)	No				
county	varchar(50)	No				
location	varchar(50)	No				
mobile	int(10)	No				
address	varchar(75)	No				
email	varchar(30)	No				
lmark	varchar(30)	No				
centre	varchar(25)	No				
gender	varchar(15)	No				
bdate	date	No				
occupation	varchar(25)	No				
username	varchar(25)	No				
password	varchar(50)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	farmerid	3	A	No	
idno	BTREE	Yes	No	idno	3	A	No	
email	BTREE	Yes	No	email	3	A	No	
username	BTREE	Yes	No	username	3	A	No	
mobile	BTREE	Yes	No	mobile	3	A	No	
email_2	BTREE	Yes	No	email	3	A	No	

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
mobile_2	BTREE	No	No	mobile	3	A	No	
				email	3	A	No	

feedback

Column	Type	Null	Default	Links to	Comments	MIME
feedbackid (Primary)	int(10)	No				
subject	varchar(100)	No				
message	varchar(50000)	No				
farmerid	int(50)	No		farmer -> farmerid		
email	varchar(50)	No				
feedback_date	timestamp	No	CURRENT_TIMESTAMP			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	feedbackid	0	A	No	
farmerid	BTREE	No	No	farmerid	0	A	No	

fertilizer

Column	Type	Null	Default	Links to	Comments	MIME
fertilizerid (Primary)	int(250)	No				
fertilizer	varchar(75)	No				
supplycompany	varchar(75)	No				
purpose	varchar(75)	No				
description	varchar(250)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	fertilizerid	2	A	No	
fertilizer	BTREE	Yes	No	fertilizer	2	A	No	

fertilizerdealers

Column	Type	Null	Default	Links to	Comments	MIME
Sl No.	int(2)	Yes	NULL			
State	varchar(27)	Yes	NULL			
Total Valid Dealer	int(5)	Yes	NULL			
Total Invalid Dealer	int(5)	Yes	NULL			
TOTAL	int(5)	Yes	NULL			

filesave

Column	Type	Null	Default	Links to	Comments	MIME
fid (Primary)	int(11)	No				
name	varchar(50)	No				
url	varchar(100)	No				
type	varchar(5)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	fid	0	A	No	

inspection

Column	Type	Null	Default	Links to	Comments	MIME
inspectionid (Primary)	int(11)	No				
farmerid	int(11)	No		farmer -> farmerid		
att	varchar(20)	No				
onn	date	No				
byy	varchar(50)	No				
contact	varchar(30)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	inspectionid	2	A	No	
farmerid	BTREE	No	No	farmerid	2	A	No	

kitfze_commodities

Column	Type	Null	Default	Links to	Comments	MIME
from_year	int(2)	No				
to_year	int(2)	No				
commodity	varchar(70)	No				
volume	double	No				

message

Column	Type	Null	Default	Links to	Comments	MIME
id (Primary)	int(20)	No				
frm	int(20)	No				
t	int(20)	No				
subject	varchar(50)	No				
message	varchar(500)	No				
status	text	No				
date	varchar(20)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	4	A	No	

message_admin

Column	Type	Null	Default	Links to	Comments	MIME
id (Primary)	int(20)	No				
t	int(20)	No				
frm	int(20)	No				
subject	varchar(50)	No				
message	varchar(500)	No				
status	text	No				
date	varchar(20)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	3	A	No	

pesticidedealers

Column	Type	Null	Default	Links to	Comments	MIME
Sl No.	int(2)	Yes	NULL			
State	varchar(27)	Yes	NULL			
Total Valid Dealer	int(5)	Yes	NULL			
Total Invalid Dealer	int(5)	Yes	NULL			
TOTAL	int(5)	Yes	NULL			

productionseeds

Column	Type	Null	Default	Links to	Comments	MIME
CROP	varchar(12)	Yes	NULL			
2002-03	decimal(5,4)	Yes	NULL			
2003-04	decimal(5,4)	Yes	NULL			
2004-05	decimal(5,4)	Yes	NULL			
2005-06	decimal(5,4)	Yes	NULL			
2006-07	decimal(5,4)	Yes	NULL			
2007-08	decimal(5,4)	Yes	NULL			
2008-09	decimal(5,4)	Yes	NULL			

seed

Column	Type	Null	Default	Links to	Comments	MIME
seedid (Primary)	int(250)	No				
seed	varchar(75)	No				
hybrid	varchar(75)	No				
description	varchar(250)	No				
variety	varchar(50)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	seedid	2	A	No	
hybrid	BTREE	Yes	No	hybrid	2	A	No	

seeds

Column	Type	Null	Default	Links to	Comments	MIME
Name	varchar(100)	No				
Price	float	No				
Amount	float	No				
Availability	tinyint(1)	No				
discount	int(11)	No				
Plant Type	varchar(50)	No				
First Marketable Produce	varchar(50)	No				
Fruit Shape	varchar(50)	No				
Fruit Colour	varchar(50)	No				
Fruit Length	varchar(50)	No				
Fruit Girth	varchar(10)	No				
Average Fruit Weight	varchar(20)	No				
Prickles	varchar(30)	No				
Special Characters	text	No				
Sowing Season	text	No				
Recommended Locality for Sowing	varchar(20)	No				
Manufactured by	varchar(60)	No				
Marketed by	varchar(60)	No				
Sold by	varchar(40)	No				
fid	int(11)	No		filesave -> fid		
seedid *(Primary)*	int(11)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	seedid	0	A	No	
fid	BTREE	No	No	fid	0	A	No	

seedvariety

Column	Type	Null	Default	Links to	Comments	MIME
Type	varchar(21)	Yes	NULL			
crop	varchar(28)	Yes	NULL			

hybrid	varchar(68)	Yes	NULL			
2009	varchar(47)	Yes	NULL			
2010	varchar(41)	Yes	NULL			
2011	varchar(46)	Yes	NULL			
2012	varchar(62)	Yes	NULL			

soiltestinglabs

Column	Type	Null	Default	Links to	Comments	MIME
SRNo	int(4)	Yes	*NULL*			
Sno	int(4)	Yes	*NULL*			
StateCD	int(2)	Yes	*NULL*			
DistrictCD	int(4)	Yes	*NULL*			
BlockCode	int(4)	Yes	*NULL*			
SubDistrictCD	int(4)	Yes	*NULL*			
VillageCode	int(6)	Yes	*NULL*			
LabType	varchar(49)	Yes	*NULL*			
LabName	varchar(132)	Yes	*NULL*			
districtnm	varchar(26)	Yes	*NULL*			
blockNameEng	varchar(24)	Yes	*NULL*			
Email	varchar(37)	Yes	*NULL*			
Mobile	varchar(38)	Yes	*NULL*			
MNTF	varchar(3)	Yes	*NULL*			
BTF	varchar(3)	Yes	*NULL*			
STF	varchar(3)	Yes	*NULL*			
Prsn_Soil	varchar(2)	Yes	*NULL*			
Prsn_Technical	varchar(2)	Yes	*NULL*			
Prsn_Supporting	varchar(2)	Yes	*NULL*			
An_Routine	varchar(5)	Yes	*NULL*			
An_Full	varchar(5)	Yes	*NULL*			
Sa_Routine	varchar(6)	Yes	*NULL*			
Sa_Full	varchar(5)	Yes	*NULL*			
Charges_Full_Actual	varchar(7)	Yes	*NULL*			
Charges_Full_Charged	varchar(15)	Yes	*NULL*			
Charges_Routine_Actual	varchar(7)	Yes	*NULL*			

Charges_Routine_Charged	varchar(15)	Yes	NULL			
Govt_Funding	varchar(62)	Yes	NULL			
Static_Mobile	varchar(6)	Yes	NULL			
Status	varchar(14)	Yes	NULL			
Town_Village_Name	varchar(29)	Yes	NULL			
SubDistName	varchar(21)	Yes	NULL			
statenm	varchar(17)	Yes	NULL			

table 17

Column	Type	Null	Default	Links to	Comments	MIME
COL 1	varchar(31)	Yes	*NULL*			
COL 2	varchar(6)	Yes	*NULL*			
COL 3	varchar(6)	Yes	*NULL*			
COL 4	varchar(6)	Yes	*NULL*			
COL 5	varchar(6)	Yes	*NULL*			
COL 6	varchar(6)	Yes	*NULL*			
COL 7	varchar(6)	Yes	*NULL*			
COL 8	varchar(6)	Yes	*NULL*			
COL 9	varchar(6)	Yes	*NULL*			
COL 10	varchar(5)	Yes	*NULL*			
COL 11	varchar(5)	Yes	*NULL*			
COL 12	varchar(5)	Yes	*NULL*			
COL 13	varchar(5)	Yes	*NULL*			

table 27

Column	Type	Null	Default	Links to	Comments	MIME
State_Name	varchar(27)	Yes	NULL			
District_Name	varchar(24)	Yes	NULL			
Crop_Year	int(4)	Yes	NULL			
Season	varchar(11)	Yes	NULL			
Crop	varchar(25)	Yes	NULL			
Area	decimal(9,2)	Yes	NULL			
Production	varchar(12)	Yes	NULL			

table 28

Column	Type	Null	Default	Links to	Comments	MIME
State_Name	varchar(27)	Yes	NULL			
District_Name	varchar(24)	Yes	NULL			
Crop_Year	int(4)	Yes	NULL			
Season	varchar(11)	Yes	NULL			
Crop	varchar(25)	Yes	NULL			
Area	decimal(9,2)	Yes	NULL			
Production	varchar(12)	Yes	NULL			

training

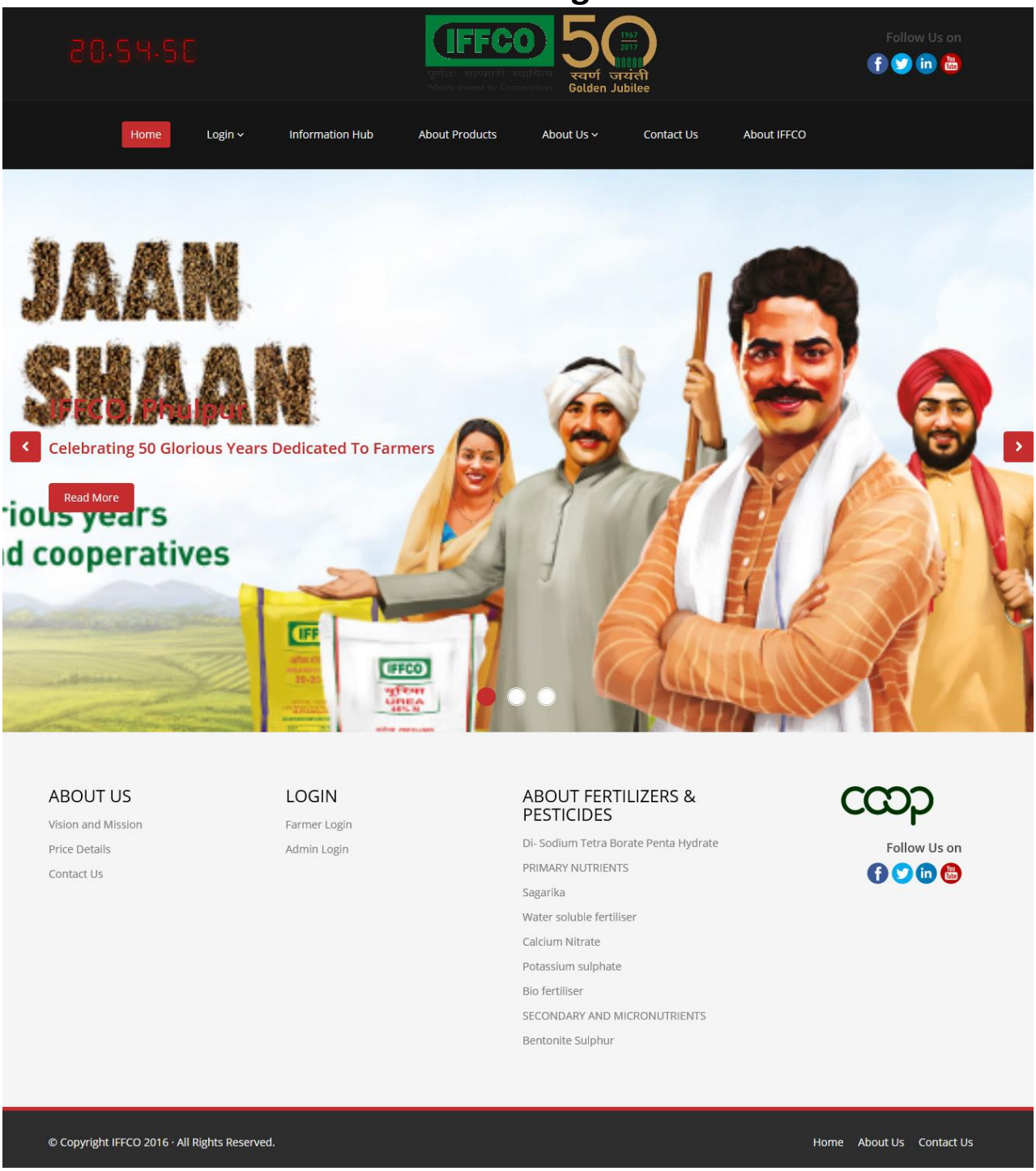
Column	Type	Null	Default	Links to	Comments	MIME
trainingid	int(11)	No				
farmerid (Primary)	int(11)	No		farmer -> farmerid		
fro (Primary)	date	No				
t (Primary)	date	No				
wher (Primary)	varchar(50)	No				

Indexes

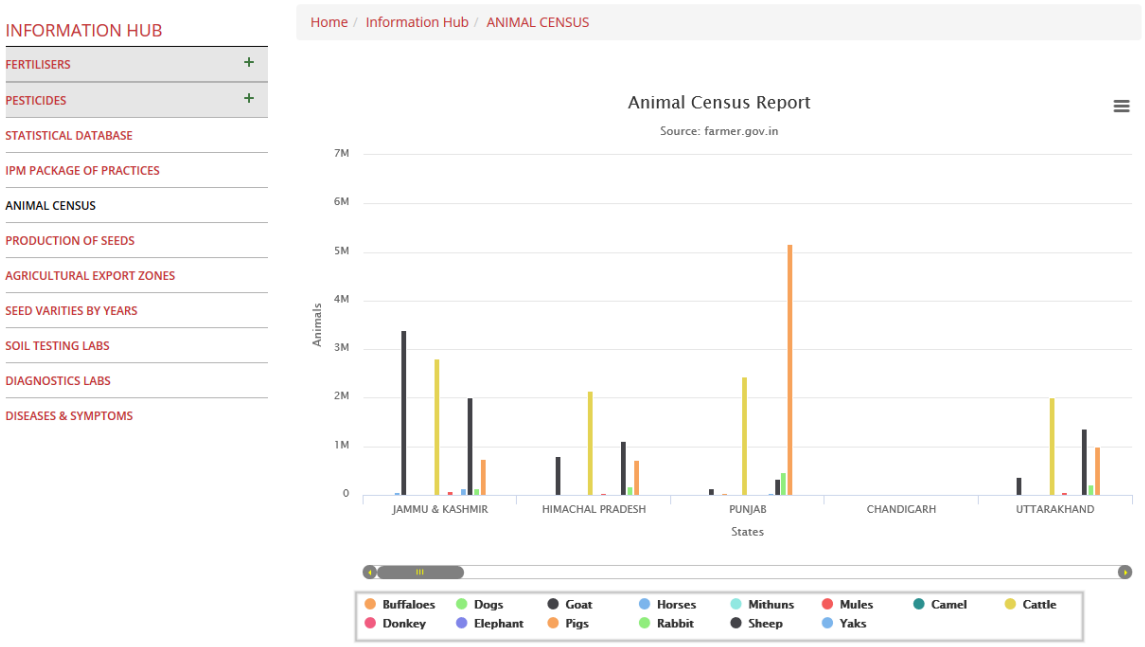
Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	farmerid	1	A	No	
				fro	1	A	No	
				t	1	A	No	
				wher	1	A	No	
unique_index	BTREE	Yes	No	trainingid	1	A	No	
				farmerid	1	A	No	
				fro	1	A	No	
				t	1	A	No	
				wher	1	A	No	

Screenshots

Home Page



Animal Census Report



Soil Testing Labs in India

Full View

Lab Nam		State	District	Block	Town/Village	Mobile	MicroNutrient Testing Facility	Boron Testing Facility	Sulphur Testing Facility	Stat	Mobile
1		UTTAR PRADESH	FAIZABAD	MASODHA	Dabha Semar	9415665138	No	No	No	Static	
A. T. R. Lab	atory Mehrun (Jalgaon)	MAHARASHTRA	JALGAON	JALGAON	Jalgaon	9370007446	Yes	No	Yes	Static	
Abhinav D	kshya Utpadak Sahakari Sangh	MAHARASHTRA	PUNE	JUNNAR	Agar	9890591297	Yes	No	No	Static	
ABOHAR		PUNJAB	FEROZPUR	ABOHAR	Abohar	9814840025	No	No	No	Mobil	
ADA STL W	RANGAL	TELANGANA	WARANGAL		Warangal	8886614643	Yes	No	Yes	Static	
Adharam A	vankalai Agriclinic	TAMIL NADU	MADURAI	SEDAPATTI	E. Kottaipatti	9047655931	No	No	No	Static	
AGRA		UTTAR PRADESH	AGRA	BAH	Kheragarh	9235209477	Yes	No	Yes	Static	
Agri clinic		TAMIL NADU	COIMBATORE	THONDAMUTHUR	Karunchamigoundenpalayam	0	No	No	No	Static	

Showing 1 to 0 of 1,575 entries

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With Filter and Search Options

INFORMATION HUB

- FERTILISERS +
- PESTICIDES +
- STATISTICAL DATABASE
- IPM PACKAGE OF PRACTICES
- ANIMAL CENSUS
- PRODUCTION OF SEEDS
- AGRICULTURAL EXPORT ZONES
- SEED VARITIES BY YEARS
- SOIL TESTING LABS
- DIAGNOSTICS LABS
- DISEASES & SYMPTOMS

Home / Info Hub / SOIL TESTING LABS

Search Labs by Location

State: -All- | District: -All- | Block: -All-

Show 10 entries | Search:

Lab Name	State	District	Block	Town/Village	Mob
1	UTTAR PRADESH	FAIZABAD	MASODHA	Dabha Semar	941
A. T. R. Laboratory Mehrun (Jalgaon)	MAHARASHTRA	JALGAON	JALGAON	Jalgaon	937
Abhinav Drakshya Utpadak Sahakari Sangh	MAHARASHTRA	PUNE	JUNNAR	Agar	989
ABOHAR	PUNJAB	FEROZPUR	ABOHAR	Abohar	981
ADA STL WARANGAL	TELANGANA	WARANGAL		Warangal	888
Adharam Ayyankalai Agriclinic	TAMIL NADU	MADURAI	SEDAPATTI	E. Kottaipatti	904
AGRA	UTTAR PRADESH	AGRA	BAH	Kheragarh	923
Agri clinic	TAMIL NADU	COIMBATORE	THONDAMUTHUR	Karunchamigoundenpalayam	0

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Production of Seeds by Year Report

21:01:26

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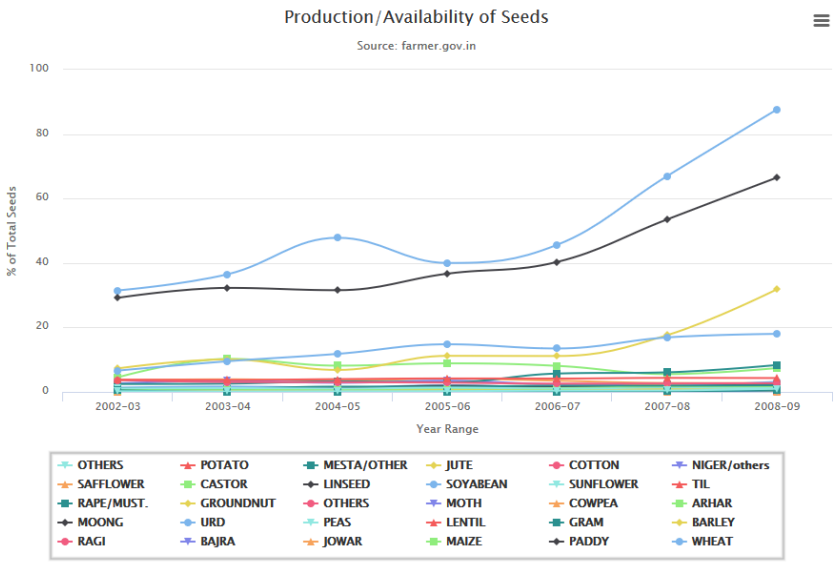
- SEED VARITIES BY YEARS
- SOIL TESTING LABS
- DIAGNOSTICS LABS
- DISEASES & SYMPTOMS

Home / Information Hub / PRODUCTION/AVAILABILITY OF SEEDS



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Agricultural Export Zones in India

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- AGRICULTURAL EXPORT ZONES
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- SOIL TESTING LABS
- DIAGNOSTICS LABS
- DISEASES & SYMPTOMS

Home / Info Hub / EXPORT ZONES

Search Exported Products by Location

State: -All- District: -All-

Search Exported Locations By Products

Product: -All-

Show 10 entries Search:

Sno.	PRODUCT	STATE	DISTRICT
1	APPLE	JAMMU AND KASHMIR	ANANTNAG
2	APPLE	JAMMU AND KASHMIR	BADGAM
3	APPLE	JAMMU AND KASHMIR	BARAMULLA
4	APPLE	JAMMU AND KASHMIR	KUPWARA
5	APPLE	JAMMU AND KASHMIR	SRINAGAR
6	APPLE	HIMACHAL PRADESH	CHAMBA
7	APPLE	HIMACHAL PRADESH	KINNAUR
8	APPLE	HIMACHAL PRADESH	KULLU

Showing 1 to 10 of 393 entries Previous 1 2 3 4 5 ... 40 Next

Various Seed Varieties Report

INFORMATION HUB

- FERTILISERS +
- PESTICIDES +
- STATISTICAL DATABASE
- IPM PACKAGE OF PRACTICES
- ANIMAL CENSUS
- PRODUCTION OF SEEDS
- AGRICULTURAL EXPORT ZONES
- SEED VARITIES BY YEARS
- SOIL TESTING LABS
- DIAGNOSTICS LABS
- DISEASES & SYMPTOMS

Home / Info Hub / SEED VARITIES BY YEARS

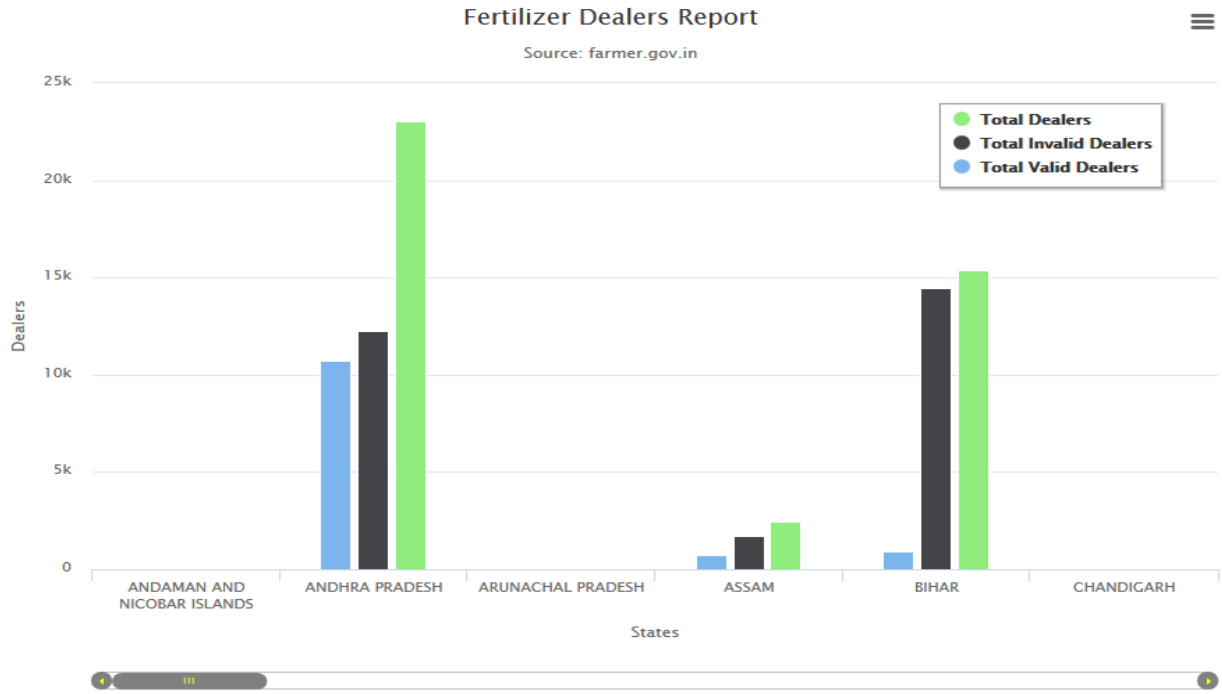
Type of Crops: -All- Name of Crop: -All- Year: -All-

Show 10 entries Search:

crop	2008	2009	2010	2011
Wheat	Pusa Wheat-111 (HD-2932)	MACS 2971	MPO(JW) 1215 (MPO 1215)	DPW 621-50 (PBW
Wheat	VL Gehun 892	Ratan(CG 5016)*	MACS 6222	WH 1080
Wheat	W H-1021	WH 1025*	PDW 314	MP 3288 (JW 3288
Wheat	POSHAN (HI8663)	UP 2628*	DBW39	KRL-213
Wheat	Purna (HI-1544)	MP 3211 (JW 3211)*	VL Gehun 907 (VL 907)	HD 2967
Wheat	HPW 251	MP (JW) 1202 (MP 1202)*	Pusa Suketi HS 507	KRL-210
Wheat	RAJ-4120	NA	Pusa Prachi (HI 1563)	HD 3043
Wheat	Pusa Baker (HS-490)	NA	WHD 943	AKAW-4627

Showing 1 to 10 of 254 entries Previous 1 2 3 4 5 ... 26 Next

Fertilizer Dealers



About Fertilizers & Pesticides

Na2B4O7.5H20

ABOUT PRODUCTS

NA2B4O7·5H2O

- PRIMARY NUTRIENTS +
- WATER SOLUBLE FERTILISER
- CALCIUM NITRATE
- POTASSIUM SULPHATE
- BENTONITE SULPHUR
- BIO FERTILISER
- SECONDARY AND MICRONUTRIENTS
- PLANT GROWTH PROMOTER +

Home / Our Products / Di-Sodium-Tetra-Borate-Penta-Hydrate

Di- Sodium Tetra Borate Penta Hydrate (14.5 % B) is source of boron, a micronutrient which has role in flowering and fruit setting in crops. Deficiency of boron leads to stunted root growth and flower formation, sterility and malformation of reproductive (fruiting) organs, poor seed setting and therefore reduced crop yields.

Di- Sodium Tetra Borate Penta Hydrate specification as per FCO:

- Boron (as B) % by weight, minimum **14.5**
- Matter insoluble in water % by weight, maximum **1.0**
- Arsenic as (As) % by weight, maximum **0.001**
- Lead (as Pb) % by weight, maximum **0.001**
- Appearance **Free Flowing Crystalline**

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NPK

ABOUT PRODUCTS

- NA2B4O7·5H2O
- PRIMARY NUTRIENTS +
- WATER SOLUBLE FERTILISER
- CALCIUM NITRATE
- POTASSIUM SULPHATE
- BENTONITE SULPHUR
- BIO FERTILISER
- SECONDARY AND MICRONUTRIENTS
- PLANT GROWTH PROMOTER +

Home / Our Products / NPK

NPK complex fertilisers produced at Kandla are DAP based grades. At present two grades Grade I - 10:26:26 and Grade II - 12:32:16 are produced.

Granular NPK complexes are free flowing and do not pose any problem during handling and storage. However, exposure of material for long period to very high humidity may cause caking. Therefore, NPK complexes are bagged in quality tested HDPE bags to prevent ingress of moisture.

Technical specifications:

NPK complex Fertiliser specifications as FCO

Particulars	NPK-10:26:26	NPK-12:32:16	Zincated-NPK-12:32:16
Moisture % by weight, maximum	1.5	1.5	1.5
Total N % by weight, minimum	10.0	12.0	12.0
Ammoniacal N % by weight, minimum	7.0	9.0	9.0
Available phosphorus (as P 2 O 5) % by weight, minimum	26.0	32.0	32.0
Water soluble phosphates (as P_2O_5) % by weight, minimum	22.1	27.2	27.5
Water soluble potash (as K_2O) % by weight, minimum	26.0	16.0	16.0
Zinc (as Zn) per cent by weight, minimum	-	-	0.5
Particle size	Minimum 90 percent of the material shall be retained between 1mm and 4 mm IS sieve.		

Ammonium Phosphate Sulphate (20-20- 0-13) specifications as per FCO

Moisture % by weight, maximum	1.0
Total Nitrogen (ammoniacal + urea), percent by weight, minimum	20.0
Ammoniacal Nitrogen, percent by weight, minimum	18.0
Available phosphorus (as P 2 O 5) % by weight, minimum	20.0
Water soluble phosphorus (as P 2 O 5), percent by weight, minimum	17.0
Sulphate Sulphur (as S), percent by weight minimum	13.0
Particle size	Minimum 90 percent of the material shall be retained between 1mm and 4 mm IS sieve.

Typical composition of DAP/NPK complex grades (by weight)

Particulars	DAP	NPK-10:26:26	NPK-12:32:16
Moisture	0.9	0.88	0.85
Diammonium phosphate	87.53	50.04	62.68
Muriate of Potash	--	43.98	26.88
Urea	3.09	1.5	1.63
Filler (silica sand)	8.48	3.6	7.96

Secondary/micro nutrients

Particulars	DAP	NPK-10:26:26	NPK-12:32:16
Sulphur as S	0.48	0.88	0.66
Iron as Fe	0.31	0.4	0.25
Aluminium as Al	0.32	0.52	0.18
Calcium as Ca	0.12	0.11	0.09
Magnesium as Mg	0.26	0.34	0.31
Zinc as Zn (ppm)	103	98	88
Copper as Cu	55	32	27

Atomic weight

C=12, H=1, O=16, N=14, P=31, K=39, Ca=40, S=32, Cl=35.

Conversion factors

P to P_2O_5 = 2.29;P_2O_5 to P = 0.44

K to K_2O = 1.2;K_2O to K= 0.83

Bio-Fertilizers

ABOUT PRODUCTS

- NA2B4O7·5H2O
- PRIMARY NUTRIENTS +
- WATER SOLUBLE FERTILISER
- CALCIUM NITRATE
- POTASSIUM SULPHATE
- BENTONITE SULPHUR
- BIO FERTILISER
- SECONDARY AND MICRONUTRIENTS
- PLANT GROWTH PROMOTER +

Home / Our Products / Bio Fertiliser

Biofertilisers are good source for enhancing the nutrient availability in soil and plants. These are categorized on basis of the specific nutrient availability concern. Nitrogenous Biofertilisers are capable of fixing atmospheric nitrogen when suitable crops are inoculated with them. Biofertilisers are low cost, effective,environmental friendly and renewable source of plant nutrients to supplement fertilisers. Integration of chemical, organic and biological sources of plant nutrients and their management is necessary for maintaining soil health for sustainable agriculture. The bacterial organisms present in the biofertiliser either fix atmospheric nitrogen or solubilise insoluble forms of soil nutrients. IFFCO is producing nitrogen fixing biofertilisers (Rhizobium, Azotobacter, Acetobacter),Phosphate Solubilising Bacteria (PSB) for phosphorus, Potassium Mobilizing Biofertiliser (KMB) for potassium, Zinc Solubilizing Biofertiliser (ZSB) for zinc and NPK liquid consortia for nitrogen, phosphorus & potassium. To cater the growing demand of liquid biofertilisers, IFFCO has focus to produce liquid biofertilisers instead of solid carrier based. The main advantages of liquid biofertiliser are higher efficiency, easier application & handling, and better shelf life.

Biofertilisers producing units :

Location	Commissioned w.e.f.	Annual capacity (in Lakh Litres)
CORDET, Phulpur (Uttar Pradesh)	March, 1996	6.0
CORDET, Kalol (Gujarat)	November, 2003	2.0
CORDET, Paradeep (Odisha)	April, 2016	1.0
CORDET, Aonla (Uttar Pradesh)	April , 2017	2.0
	Total	11.0

	Biofertilisers production	
Year	Solid Based (MT)	Liquid Based ('000 Litres)
2012-13	1412	88.0
2013-14	1417	107.9
2014-15	1222	134.7
2015-16	922	255.7
2016-17	82	812.9

Phosphate Solubilising Micro Organism

Several soil bacteria and fungi possess the ability to bring insoluble phosphates into soluble forms by secreting organic acids. They can be applied to and recommended for all crops

Rhizobium

It is the most important nitrogen fixing organism. It live symbiotically in the root nodules of leguminous plants and supply nitrogen to the plant through nitrogen fixation. Besides, supplying nitrogen to the crop, nitrogen fixed by legume Rhizobia association would also leave residual nitrogen for the succeeding crops. The beneficiary crops are Groundnut, Soybean, Red-gram, Green-gram, Black-gram, Lentil, Cow pea, Bengal-gram and Fodder legumes.

Azotobacter

It is non symbiotic nitrogen fixing bacteria recommended for non leguminous crops like Paddy, Wheat, Millets, Cotton, Tomato, Cabbage, Mustard, Safflower and Sunflower. The Azotobacter performs well if the soil organic matter content is high.

Acetobacter

It is a symbiotic bacteria capable of fixing atmospheric nitrogen by living within the sugar plant. They are found in all parts of plant body. It is suitable for sugarcane cultivation.

Potassium Mobilizing Biofertiliser (KMB)

Potassium (K) availability in soil is also influenced by by microbial activities in the rhizosphere which releases K from the non-exchangeable reserve. These microorganisms are commonly known as potassium solubilizing bacteria or potassium dissolving bacteria. The most important potassium solubilising bacteria are silicate bacteria such as Bacillus mucilaginous, B. edaphicus, B. glucanolyticus and B. circulans.

Zinc Solubilizing Biofertiliser (ZSB)

Some microbes have efficiency to solubilize zinc from the insoluble form by secretion of some organic acids. and these are known as zinc solubilizing bacteria are mainly belongs to genus of Bacillus.

NPK Liquid Consortia

Consortium of Rhizobium, Azotobacter and Acetobacter, PSB and KMB is prepared for Nitrogen, Phosphorus and potassium to the crops.

Common Price Structure for all types of Liquid Biofertilisers are as under

Biofertiliser Liquid (Packing Size)	MRP (Rs./Unit) (inclusive taxes)
250 ml	60.00
500 ml	110.00
1 liter	200.00

Production of BIO – Fertilisers

Cooperative Rural Development Trust (CORDET) - PHULPUR & KALOL (Annual Capacity 75 MT & 165 MT) (Qty in MT)

STRAIN	2000-01	2001-02	2002-03	2003-04	2004-05
Rhizobium	5.07	3.81	5.5	5.39	7.37
Azotobacter	45.72	55.37	56.22	56.73	120.2
PSM	51.8	72.07	71.17	71.24	172.77
Aectobacter	0	0	0	0	30.43
Total Production	102.6	131.62	133.23	136.5	339.13
Capacity Utilisation (%)	136.8	175.49	177.64	182	141.3

Cooperative Rural Development Trust (CORDET)- KALOL commissioned w.e.f. 16.02.2004 with annual capacity of 165 MT.

Urea

21:22:09

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ABOUT PRODUCTS

- NA2B4O7·5H2O
- PRIMARY NUTRIENTS +
- WATER SOLUBLE FERTILISER
- CALCIUM NITRATE
- POTASSIUM SULPHATE
- BENTONITE SULPHUR
- BIO FERTILISER
- SECONDARY AND MICRONUTRIENTS
- PLANT GROWTH PROMOTER +

Home / Our Products / Urea

Urea is the most important nitrogenous fertiliser in the country because of its high N content (46%N). Besides its use in the crops, it is used as a cattle feed supplement to replace a part of protein requirements. It has also numerous industrial uses notably for production of plastics.Although urea often offers farmers the most nitrogen for the lowest price on the market, special steps must be taken when applying urea to the soil to prevent the loss of nitrogen through a chemical reaction.

About Urea

Urea is the most important nitrogenous fertiliser in the country because of its high N content (46%N). Besides its use in the crops, it is used as a cattle feed supplement to replace a part of protein requirements. It has also numerous industrial uses notably for production of plastics. Presently all the Urea manufactured in the country is Neen coated.

Technical specifications:

Specification of Neem Coated Urea as per Fertiliser Control Order

Moisture % by weight, maximum	1.0
Total N % by weight (on dry basis) minimum	46.0
Biuret % by weight, maximum	1.5
Neem oil content soluble in Benzene, % by weight, mimimum	0.035
Particle size	Minimum 90% of the material be retained on 1 mm and 2.8 mm IS sieve.

If urea is applied to bare soil surface significant quantities of ammonia may be lost by volatilisation because of its rapid hydrolysis to ammonium carbonate. The hydrolysis of urea can be altered by the use of several compound called urease inhibitors. These inhibitors inactivate the enzyme and thereby prevent the rapid hydrolysis of urea when it is added to soil. The rapid hydrolysis of urea in soils is also responsible for ammonia injury to seedlings if large quantities of this material placed with or too close to the seed. Proper placement of fertiliser urea with respect to seed can eliminate this difficulty.

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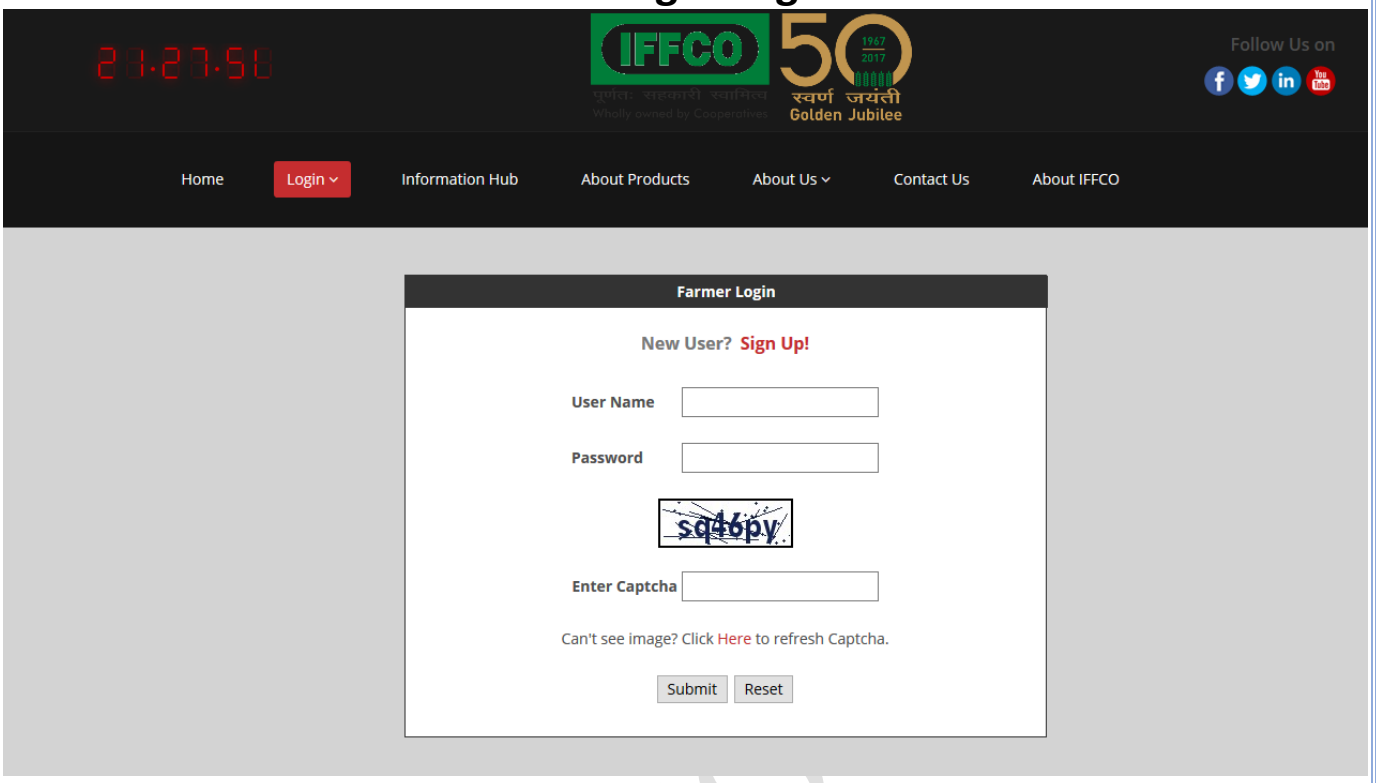
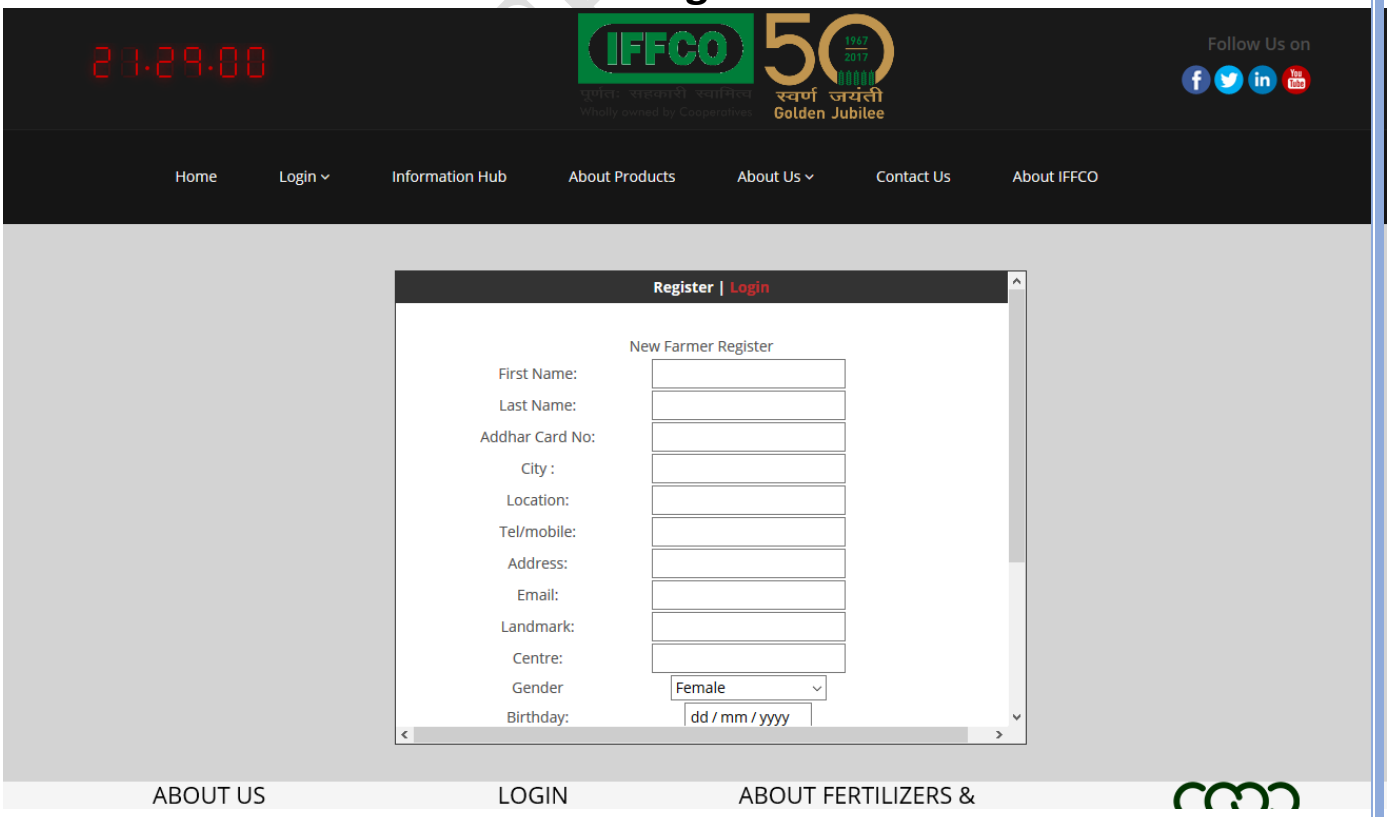
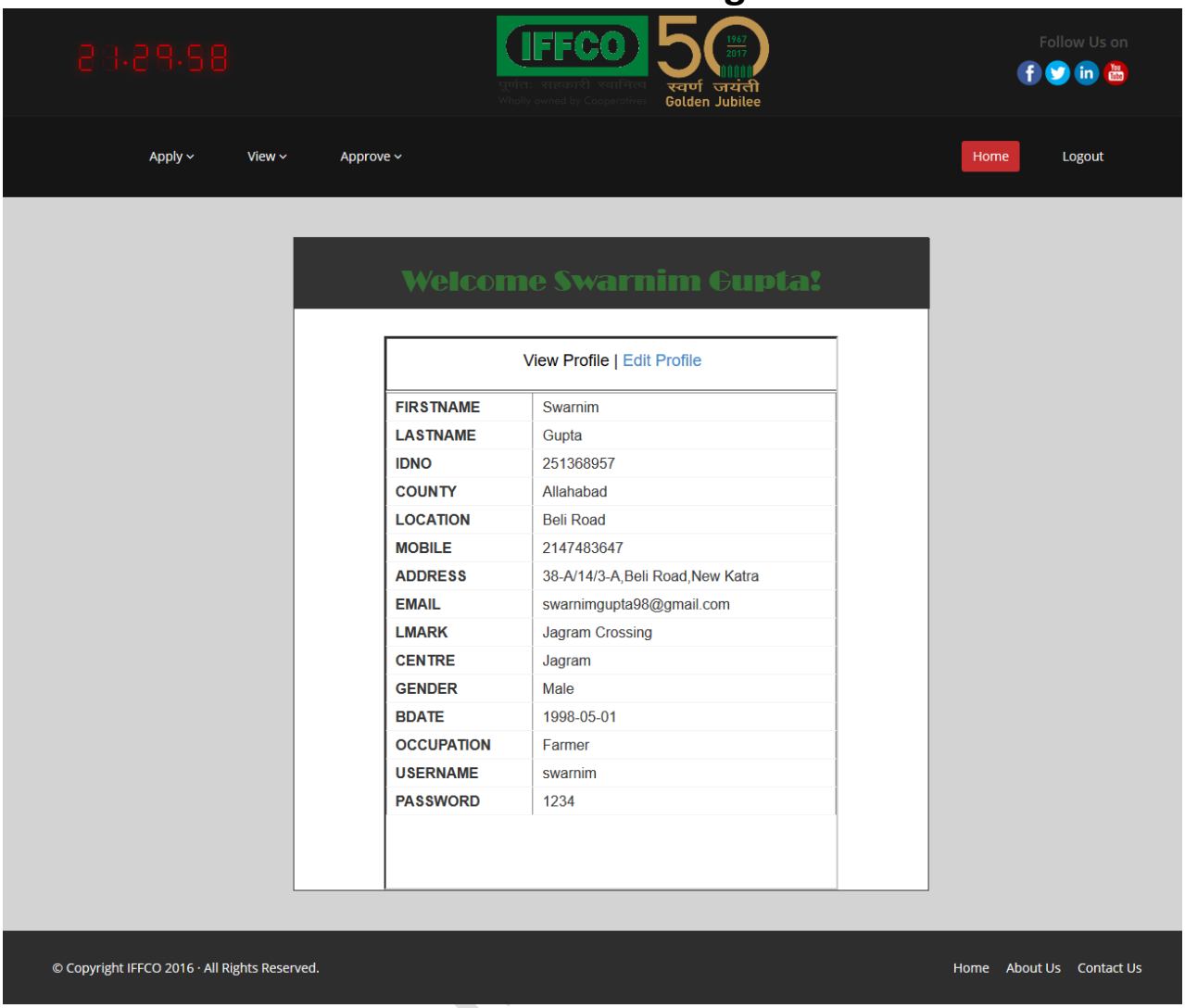
Farmer Login Page



Farmer Register



Farmer Home Page



Drawbacks and Limitations

1. The site requires users to have basic knowledge of computers and some training for farmers.
2. Due to unseen factors that cause products to be delayed in reaching the members this can cause a negative impact on the sellers.
3. Expansion of territory is very expensive if the site is offering to ship good either free or at a minimum cost.

Proposed Enhancements

1. Increase the overall Responsiveness of the application.
2. Generate reports to filter details better.
3. Improve the transitions between forms
4. Add more features to the application.
5. Faster search functionality

Conclusion

I feel very glad to conclude that it is my honor to perform such a professional work.

Object of the project is to satisfy user requirement, successful implantation of the system, design a user friendly and easy to operate the system.

I had the opportunity to learn about the system and get conceptual and practical knowledge of software engineering, system analysis, and system design a real-time experience of the project implementation using HTML JavaScript, AJAX Dynamic Rendering, Bootstrap-CSS as front-end tool , PHP as Server-Side Scripting Language and SQL as back end tool for storage and querying purposes.

ANNEXURES 3: SAMPLE CODE

Database Connection

```php
<?php
    $conn = mysqli_connect('localhost', 'root', '');
     if (!$conn)
    {
     die('Could not connect: ' . mysqli_error());
    }
    mysqli_select_db($conn,'farmer');
?>
```

Login

```php
<?php
    require ("db.php");
    session_start();
    $error = "";

    if (isset($_POST['Login']))
    {
        if(empty($_SESSION['captcha_code'] ) ||
strcasecmp($_SESSION['captcha_code'], $_POST['captcha_code']) != 0){
        $msg="<span style='color:red'>Invalid Code!</span>";
        }else{
            $username = trim($_POST['username']);
            $password = trim($_POST['password']);

            // sending query
            $sql="SELECT * FROM farmer WHERE username = '$username' AND
password = '$password'";
            $result = mysqli_query($conn,$sql);

            if (!$result)
            {
                die("Query to show fields from table failed");
            }

            $numberOfRows = mysqli_num_rows($result);
            $row = mysqli_fetch_array($result);

                if ($numberOfRows == 0)
                {
                    $error= " <br><center><font color= 'red' size='3'>Invalid
Username and Password !</center></font>";
                }
                else if ($numberOfRows ==1)
                {
                    $_SESSION['is']['login']    = TRUE;
                    $_SESSION['is']['username'] = $_POST['username'];
                    $_SESSION['userid']=$row['farmerid'];
                    $_SESSION['logged']="true";
                    $session = "1";

                header("location:farmer_home.php");
                }
        }
    }
?>
```

DigiClock

```
<div class="clock">
  <div class="digit hours">
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
  </div>

  <div class="digit hours">
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
  </div>

  <div class="separator"></div>

  <div class="digit minutes">
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
  </div>

  <div class="digit minutes">
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
  </div>

  <div class="separator"></div>

  <div class="digit seconds">
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
  </div>

  <div class="digit seconds">
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
    <div class="segment"></div>
```

```
    <div class="segment"></div>
  </div>
</div>
<script>
var digitSegments = [
    [1,2,3,4,5,6],
    [2,3],
    [1,2,7,5,4],
    [1,2,7,3,4],
    [6,7,2,3],
    [1,6,7,3,4],
    [1,6,5,4,3,7],
    [1,2,3],
    [1,2,3,4,5,6,7],
    [1,2,7,3,6]
]

document.addEventListener('DOMContentLoaded', function() {
  var _hours = document.querySelectorAll('.hours');
  var _minutes = document.querySelectorAll('.minutes');
  var _seconds = document.querySelectorAll('.seconds');

  setInterval(function() {
    var date = new Date();
    var hours = date.getHours(), minutes = date.getMinutes(), seconds =
date.getSeconds();

    setNumber(_hours[0], Math.floor(hours/10), 1);
    setNumber(_hours[1], hours%10, 1);

    setNumber(_minutes[0], Math.floor(minutes/10), 1);
    setNumber(_minutes[1], minutes%10, 1);

    setNumber(_seconds[0], Math.floor(seconds/10), 1);
    setNumber(_seconds[1], seconds%10, 1);
  }, 1000);
});

var setNumber = function(digit, number, on) {
  var segments = digit.querySelectorAll('.segment');
  var current = parseInt(digit.getAttribute('data-value'));

  // only switch if number has changed or wasn't set
  if (!isNaN(current) && current != number) {
    // unset previous number
    digitSegments[current].forEach(function(digitSegment, index) {
      setTimeout(function() {
        segments[digitSegment-1].classList.remove('on');
      }, index*45)
    });
  }

  if (isNaN(current) || current != number) {
    // set new number after
    setTimeout(function() {
      digitSegments[number].forEach(function(digitSegment, index) {
        setTimeout(function() {
          segments[digitSegment-1].classList.add('on');
        }, index*45)
      });
    }, 250);
    digit.setAttribute('data-value', number);
  }
}
```

```
</script>
```

Edit Farmer Profile

```
<link rel="stylesheet" href="styles.css" type="text/css" />
<link rel="stylesheet" href="css/bootstrap.min.css" type="text/css" />
<meta name="viewport" content="width=device-width, minimum-scale=1.0, maximum-
scale=1.0" />
<div style = "position:fixed;background-color:white; color:#FFFFFF;width:500px;
border: solid 1px #333333; padding:3px;text-align:center;"><h4><a
href="farmer_profile.php"> View Profile</a> <font style="color:black;">|  Edit
Profile</font></h4></div>
<?php
    require("db.php");
    session_start();
    if($_SESSION['logged'] == 'true'){
        $id =$_SESSION['userid'];
        if(isset($_POST['submit'])){
            $firstname=$_POST['firstname'] ;
            $lastname= $_POST['lastname'] ;
            $idno=$_POST['idno'] ;
            $county=$_POST['county'] ;
            $location=$_POST['location'] ;
            $mobile=$_POST['mobile'] ;
            $address=$_POST['address'] ;
            $email=$_POST['email'] ;
            $lmark=$_POST['lmark'] ;
            $centre=$_POST['centre'] ;
            $gender=$_POST['gender'] ;
            $bdate=$_POST['bdate'] ;
            $occupation=$_POST['occupation'] ;
            $username=$_POST['username'] ;

            $sql="UPDATE farmer set
firstname='$firstname',lastname='$lastname',idno='$idno',county='$county',locat
ion='$location',mobile='$mobile',address='$address',email='$email',lmark='$lmar
k',centre='$centre',gender='$gender',bdate='$bdate',occupation='$occupation',us
ername='$username' WHERE farmerid ='$id'";

            $query=mysqli_query($conn,$sql);
            if(mysqli_affected_rows($conn)==1){
                header('location:farmer_profile.php');
            }
            else{
                echo "Can't update farmer details.Please try again";
            }
        }
        else{
            $sql="SELECT * FROM farmer WHERE farmerid ='$id'";
            $result = mysqli_query($conn,$sql);
            $test = mysqli_fetch_array($result);
            $cols=mysqli_num_fields($result);
            $fields=mysqli_fetch_fields($result);
            echo "</br></br></br>";
            echo "<form action='' method='POST'>";
            echo "<table border='1'>";
                for($i=1;$i<$cols-1;$i++){
                    printf("<tr><td style='text-transform:
uppercase;'><b>%s</b></td><td><input type='text' value='%s' name='%s'
></td></tr>",$fields[$i]->name,$test[$i],$fields[$i]->name);
```

```
                    }
                echo "</table>";
                echo "</br></br>";
                echo
"             
       ";
                echo
"             
       ";
                echo
"             
       ";
                echo "<input type='Submit' name='submit' value='Edit Profile'/>";
                echo "</form>";
            }
        }

?>
```

Animal Census

```
<?php
    require ("db.php");
    $sql="Select * from animal_census";
    $res=mysqli_query($conn,$sql);
    $cols=mysqli_num_fields($res);
    $f=mysqli_fetch_fields($res);
    while($row=mysqli_fetch_array($res)){
        $states1[]=$row['State_Name'];
        $states = "'" . implode( "','",$states1) . "'";
        for($i=2;$i<$cols;$i++){
            $data[$i][]=$row[$i];
        }
    }
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Livestock Census</title>
    <script type="text/javascript" src="js/jquery-1.11.3.min.js"></script>
    <?php include("core_css.php");?>
</head>

<body class="homepage">
    <?php include("header1.php");?>
    <script>$(document).ready(function(){$('#menu3').addClass('active');})
;</script>
    <section class="container">

    <div class="row">

    <?php include("info-sidebar.php"); ?>
    <script>$(document).ready(function(){$('#prod18').addClass('active');})
;</script>

    <section class="col-sm-9 container-panel">

         <div class="clearfix">
        <ul class="breadcrumb"><li><a href="index.php">Home </a></li><li><a
href="information.php">Information Hub </a></li><li><a href="#">ANIMAL CENSUS
</a></li></ul>
```

```
      </div>

       <!--[/breadcrumb]-->

 <div class="clearfix data-overview">
<script src="highstock.js"></script>
    <script src="../highcharts/code/modules/exporting.js"></script>
    <script src="../highcharts/code/modules/export-data.js"></script>
    <div id="container" class="container-panel" style="height:600px;"></div>
<script type="text/javascript">
            var series = [];
            var i=2;<?php for($i=2;$i<$cols;$i++){?>
                series.unshift({
                    name: "<?php echo $f[$i]->name; ?>",
                    data: [<?php echo join($data[$i], ','); ?>]
                });
            <?php }?>
            Highcharts.chart('container', {
                chart: {
                    type: 'column'
                },
                title: {
                                text: 'Animal Census Report'
                },
                subtitle: {
                                text: 'Source: <a
href="http://www.farmer.gov.in">farmer.gov.in</a>'
                },
                xAxis: {
                                categories: [<?php echo $states; ?>],
                                max:4,
                                min:0,
                                title: {
                                    text: 'States'
                                },


                },
                yAxis: {
                    min: 0,
                    title: {
                        text: 'Animals'
                    }
                },
                credits: {
                  enabled: false
              },
                legend: {
                                shadow: true,
                                reversed:true
                            },
                exporting:{
                    showTable:true
                },
                series: series,
                scrollbar: {
                    enabled:true,
                    barBackgroundColor: 'gray',
                    barBorderRadius: 7,
                    barBorderWidth: 0,
                    buttonBackgroundColor: 'gray',
                    buttonBorderWidth: 0,
                    buttonArrowColor: 'yellow',
```

```
                    buttonBorderRadius: 7,
                    rifleColor: 'yellow',
                    trackBackgroundColor: 'white',
                    trackBorderWidth: 1,
                    trackBorderColor: 'silver',
                    trackBorderRadius: 7
                }
            });
        </script>
    </div>

 </div>
</section>
</div>

</section>
```

```
    <?php
        include("footer.php");
     ?>
         <script src="js/jquery.js"></script>
    <script src="js/bootstrap.min.js"></script>
    <script src="js/jquery.prettyPhoto.js"></script>
    <script src="js/jquery.isotope.min.js"></script>
    <script src="js/main.js"></script>
    <script src="js/wow.min.js"></script>
</body>
</html>
```

Report Generation

```
<?php
session_start();
require_once "fpdf.php";
$pdf = new FPDF();
$pdf->AddPage();
$pdf->setFillColor(255,255,255);
$pdf->setTextColor(0);
$pdf->setFont('Arial','B',16);
$pdf->Cell(60,10,'Contract Report');
$pdf->Cell(60,10,'Status: '.$_SESSION['status']);
$pdf->setFont('Arial','B',11);
$headers = array('No','Id Number', 'First Name', 'Last Name', 'Contract', 'Land
Size','Location');
$w = array(10,25,25,25,30,25,35);
$pdf->Ln();
for($i=0; $i<count($headers); $i++) {
    $pdf->Cell($w[$i],7,$headers[$i],1,0,'C',true);
}
$pdf->Ln();
$details = $_SESSION['report'];
for($j=0; $j<count($details); $j++) {
    $farmer = $details[$j];
    $pdf->Cell(10,7,$j+1,1,0,'C',true);
    $pdf->Cell(25,7,$farmer['idno'],1,0,'C',true);
    $pdf->Cell(25,7,$farmer['firstname'],1,0,'C',true);
    $pdf->Cell(25,7,$farmer['lastname'],1,0,'C',true);
    $pdf->Cell(30,7,$farmer['contract'],1,0,'C',true);
    $pdf->Cell(25,7,$farmer['landsize'],1,0,'C',true);
    $pdf->Cell(35,7,$farmer['location'],1,0,'C',true);
    $pdf->Ln();
```

```
}
$date = strtotime('now');
$pdf->setFont('Arial','B',8);
$pdf->Cell(35,10,'Generated on: '.date('m/d/Y',$date));
$pdf->Cell(2,10,'at '.date('H:i:s',$date));
$pdf->Output();
?>
```

Farmer Report PDF Generation

```
<?php
require('fpdf.php');
require('bin/con_db.php');


global $db;

class PDF extends FPDF
{
// Page header
function Header()
{

}

// Page footer
function Footer()
{
       // Position at 1.5 cm from bottom
      // $this->SetTextColor(0,0,0);
     //$this->SetY(-1);
    //Arial italic 8
   //$this->SetFont('Arial','I',6);
  //Page number

    //$this->Cell(2,1,'ed',0,0,'C');
}
}
    //get Data from the database
    $tt = 0;
    $k = 1;

// Instanciation of inherited clas
$pdf = new PDF('P','mm','A4');
$pdf->AliasNbPages();
$pdf->AddPage();



        // Set font
       $pdf->SetFont('Arial', 'B', 13);
        // Title

         $pdf->SetFont('Arial', 'B', 15);
         $pdf->Cell(175, 1, 'FARMERS ', 0, false, 'C', 0, '', 0, false, 'M',
'M');

         $pdf->SetFont('Arial', 'B', 12);

         $pdf->SetFont('Arial', 'B', 13);
         $pdf->Ln(5);
```

```
        // Headers and widths
        $pdf->SetFillColor(240,248,240);
        $pdf->SetTextColor(39,119,199);
        $pdf->SetFont('Arial','B',11);
        $pdf->Ln();

        $pdf->SetY(25);

        $x = $pdf->GetX();
        $y = $pdf->GetY();
        $i= 0 ;


        $header = array("#", "FNAME", "LNAME" ,"NATIONAL ID","TELEPHONE");
        $w = array(10,35,40,40,50);
        $pdf->SetX(20);
        for($i = 0; $i < count($header); $i++) {
            $pdf->Cell($w[$i], 6, $header[$i], 1, 0, 'C');
        }
        $pdf->Ln();

        //$recordID = $_GET['recordID'];

      //$getdata = $db->Execute("select * from farmer where stud_id
={$_GET['recordID']}");


         $getdata = $db->Execute("select * from farmer ");

           $count = $getdata->RecordCount();
             if($count ==0)
             {
               $data[] =array("","","","");
             }
         while(!$getdata->EOF)

         {
                $firstname      = $getdata->fields["firstname"];
                $lastname    = $getdata->fields["lastname"];
                $idno    = $getdata->fields["idno"];
                $mobile      = $getdata->fields["mobile"];


                $data[] = array($k,$firstname,$lastname,$idno,$mobile);
                $getdata->MoveNext();
                $k++;
         }
         foreach($data as $row)
        {
              $pdf->SetFillColor(245,248,209);

              // $pdf->SetTextColor(39,119,199);

            $pdf->SetFont('Arial','',9);

            $yH = 7;

            $pdf->SetX(20);
            $pdf->Cell($w[0], $yH, $row[0], 'LRB', 0, 'L');
            $pdf->Cell($w[1], $yH, $row[1], 'LRB', 0, 'c');
            $pdf->Cell($w[2], $yH, $row[2], 'LRB', 0, 'C');
            $pdf->Cell($w[3], $yH, $row[3], 'LRB', 0, 'C');
            $pdf->Cell($w[4], $yH, $row[4], 'LRB', 0, 'C');
            $pdf->Ln();
```

```
        }

//$pdf->Output($filename,'F');
$pdf->Output();
?>
```

Set Diagnostics Table

```
<script type="text/javascript" src="js/jquery-1.12.4.js"></script>
<script type="text/javascript" src="js/jquery.dataTables.min.js"></script>
<script>
$(document).ready(function() {
    $('#example').DataTable( {
        "scrollY": 340,
        "scrollX": true
    } );
} );
</script>
<link href="css/jquery.dataTables.min.css" rel="stylesheet">
<style>
div.dataTables_wrapper {
        height: 500px;
        width: 800px;
        margin: 0 auto;
    }
</style>
<?php
                require("db.php");
                $sql="Select * from diagnostics_lab ORDER BY State_Name";
                $res=mysqli_query($conn,$sql);
                $cols=mysqli_num_fields($res);
                $fields=mysqli_fetch_fields($res);

                echo '<table id="example" class="table table-bordered display
nowrap" style="width:100%">';
                echo "<thead><tr>";
                for($i=0;$i<$cols;$i++){
                    printf("<th>%s</th>",$fields[$i]->name);
                }
                echo "</tr></thead>";
                echo "<tbody>";
                while($row=mysqli_fetch_row($res)){
                    echo "<tr>";
                    for($i=0;$i<$cols;$i++){
                        echo "<td>$row[$i]</td>";
                    }
                    echo "</tr>";
                }
                echo "</tbody>";
                echo "</table>";
?>
```

Set Animal Disease & Symptoms Table

```
<script>
$(document).ready(function() {
    $('#example').DataTable( {
        "scrollY": 340,
        "scrollX": true
    } );
} );
```

```
</script>
<link href="css/jquery.dataTables.min.css" rel="stylesheet">
<style>
div.dataTables_wrapper {
        height: 500px;
        width: 800px;
        margin: 0 auto;
    }
</style>
<?php
    require("db.php");
    if($_POST){
        $species=$_POST['Species_Name'];
        $disease=$_POST['Disease_Name'];

        if($species=="All" && $disease!="All"){
            $sql="select * from disease where Disease_Name='$disease'";
        }
        else if($species!="All" && $disease=="All"){
            $sql="select * from disease where Species_Name='$species'";
        }
        else if($species!="All" && $disease!="All"){
            $sql="select * from disease where Species_Name='$species' and
Disease_Name='$disease'";
        }
        else {
            $sql="select * from disease";
        }
        if(isset($sql)){
            $res=mysqli_query($conn,$sql);
            $cols=mysqli_num_fields($res);
            $fields=mysqli_fetch_fields($res);

            echo '<table id="example" class="table table-bordered display
nowrap" style="width:100%">';
            echo "<thead><tr>";
            for($i=0;$i<$cols;$i++){
                printf("<th>%s</th>",$fields[$i]->name);
            }
            echo "</tr></thead>";
            echo "<tbody>";
            while($row=mysqli_fetch_row($res)){
                echo "<tr>";
                for($i=0;$i<$cols;$i++){
                    echo "<td>$row[$i]</td>";
                }
                echo "</tr>";
            }
            echo "</tbody>";
            echo "</table>";
        }
    }
?>
```

Soil Table & Dropdown List Dynamic Rendering Using Ajax

```
<section  class="col-sm-9 container-panel">

 <!--[/Banner]-->

     <!--[breadcrumb]-->
```

```
     <div class="clearfix">
    <ul class="breadcrumb"><li><a href="index.php">Home </a></li><li><a
href="information.php">Info Hub</a></li><li><a href="#">SOIL TESTING LABS
</a></li></ul>

  </div>

   <!--[/breadcrumb]-->

 <div class="clearfix data-overview">
    <h3 align="center">Search Labs by Location</h3>

     <div class="row">
                <div class="col-md-2"></div>
                <script>
                    $(document).ready(function(){
                                $.ajax({
                                    type:"POST",
                                    url:"setsoiltable.php",
                                    success:function(html){
                                        $("#labtable1").html(html);
                                    }
                                });
                    });
                    $(window).on('beforeunload', function(){
                                $.ajax({
                                    type:"POST",
                                    url:"setsoiltable.php",
                                    success:function(html){
                                        $("#labtable1").html(html);
                                    }
                                });
                                $("#state").html("<option value='All'
selected>-All-</option>");
                                $("#district").html("<option value='All'
selected>-All-</option>");
                                $("#subdistrict").html("<option value='All'
selected>-All-</option>");
                    });
                </script>
                <div class="col-md-3 col-sm-2">
                    <div class="widget">
                       <label
for="state">State         &n
bsp; 
                    </label><select style="width:220px;" class="dropdown"
id="state" name="state"
onchange="get_district();get_subdistricts();set_table1();" >
                     <option value="All" selected>-All-</option>
                         <?php
                            while($test=mysqli_fetch_array($res)){
                                printf("<option
value='%d'>%s</option>",$test['StateCD'],$test['statenm']);
                            }
                         ?>
                     </select>
                    </div>
                </div><!--/.col-md-3-->
                <script type="text/javascript">
                        function set_table1(){
                            var state=$("#state").val();

                            $.ajax({
                                type:"POST",
```

```
                                    url:"setstatetable.php",
                                    data:{'StateCD':state},
                                    success:function(html){
                                        $("#labtable1").html(html);
                                    }
                                });
                            }
                        </script>
                <div class="col-md-3 col-sm-4">
                    <div class="widget">
                        <label
for='district'>District</label>        
     
                        <select style="width:220px;" id='district'
name='district' onchange='get_subdistricts();set_table2();'><option selected
value='All'>-All-</option></select>
                        <script type="text/javascript">
                            function get_district(){
                                var state=$("#state").val();
                                var dataString="StateCD="+state;
                                $.ajax({
                                    type:"POST",
                                    url:"getdistricts.php",
                                    data:dataString,
                                    success:function(html){
                                        $("#district").html(html);
                                    }
                                });
                            }
                            function set_table2(){
                                var district=$("#district").val();
                                var state=$("#state").val();

                                $.ajax({
                                    type:"POST",
                                    url:"setdistricttable.php",

data:{'StateCD':state,'DistrictCD':district},
                                    success:function(html){
                                        $("#labtable1").html(html);
                                    }
                                });
                            }
                        </script>
                    </div>
                </div><!--/.col-md-3-->

                <div class="col-md-2 col-sm-2">
                    <div class="widget">
                        <label
for='subdistrict'>Block</label>        
     
                        <select style="width:220px;" id='subdistrict'
name='subdistrict' onchange='set_table3();'><option selected value='All'>-All-
</option></select>
                        <script type="text/javascript">
                            function get_subdistricts(){
                                var district=$("#district").val();
                                var state=$("#state").val();

                                $.ajax({
                                    type:"POST",
                                    url:"getsubdistricts.php",
```

```
data:{'StateCD':state,'DistrictCD':district},
                                        success:function(html){
                                            $("#subdistrict").html(html);
                                        }
                                    });
                                }

                                function set_table3(){
                                    var subdistrict=$("#subdistrict").val();
                                    var district=$("#district").val();
                                    var state=$("#state").val();
                                    $.ajax({
                                        type:"POST",
                                        url:"setsubdistricttable.php",

data:{'StateCD':state,'DistrictCD':district,'SubDistrictCD':subdistrict},
                                        success:function(html){
                                            $("#labtable1").html(html);
                                        }
                                    });
                                }
                            </script>
                        </div>
                    </div><!--/.col-md-3-->
    </div>
    </br>

    </div>
    <div id="labtable1">
    </div>
 </div>
</section>
```