Proposal Presented to

**Department of Agriculture**

**Govt. of Jharkhand**

Submitted By

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**Executive Summary**

The objective of this document is to showcase the projects and applications we at Aegis Consulting Services have developed on multiple platforms for the Department of Agriculture, Govt. of Andhra Pradesh.

We have developed a number of applications for the Department of Agriculture, Govt. of Andhra Pradesh for key programs namely Online License Management System (OLMS) for Pesticides, Fertilizers & Seeds, Chandranna Rythu Kshetram (CRK), Input Subsidy, Soil, Fertilizer Monitoring System (FMS), Polam Pilustundi.

The above mentioned applications are developed by us (Aegis Consulting Services) in consultation with the respective authority at the Dept. of Agriculture, Govt. of Andhra Pradesh. All the applications we have developed have an important role in the successful implementation and monitoring of the respective programmes.

We not only develop the applications but also provide maintenance & update service for the applications developed by us. This maintenance & upgrading the application is part is crucial after the implementation of any application as it involves new inputs/requirements to be integrated with the existing application so as to make it more user friendly and also fit the needs of the respective Head of the department and Stage government.

In the contemporary world with everything going digital/online it is the need of the hour to start implementing the online application thereby reducing the manual paper work and also the human factor resulting in more efficient and faster process management and making the processes more user friendly.

In this document we have given a brief description of the application we have developed and it is our firm belief that implementation of these applications by the Department of Agriculture, Govt. of Jharkhand will help in making their processes more efficient and user friendly and also the with the integrated dashboard reports the Department and State heads can monitor the progress at any given point.

**Background**

Aegis Consulting Services is a software engineering and development company in the area of providing information technology based solutions to various business entities operating in different segments.

The company applies robust and optimal methodologies; state of art technologies with software engineering skills to domain knowledge in creating information technology based solutions of clients in the respective domains.

Aegis Consulting Services keeps abreast with the state of art technologies. Knowledge of the technologies are carefully analyzed for suitability and appropriately deployed with the solution. The company has in-depth domain as well as functional knowledge.

As mentioned above we have developed and successfully implemented the above mentioned applications on both Web and Android platforms for the Department of Agriculture, Govt. of Andhra Pradesh. Apart from these we are also working with the Department of Health & Family Welfare, Andhra Pradesh developing & implementing new applications and maintaining their existing applications.

**List of Projects Developed for Dept. of Agriculture, Govt. of AP**

The list of all the Projects/application developed by us at Aegis Consulting Services have been listed below.

1. **Online License Management System**
   1. The main objective of Online License Management System is to enable online submission of application for grant of new Authorization Letter for carrying Seeds, Fertilizers, and Pesticides business. The application can also be used for renewal, amendment or issue of duplicate authorization letters. Automatic generation of Authorization letters is possible once it is approved by competent authority.
   2. The Online License Management System for Seeds, Fertilizers, Pesticides was launched on 8-2-2012 by Hon’ble Commissioner & Director of Agriculture. Online License Management System for Seeds, Fertilizers and Pesticides is live now.
   3. The certificate of registrations will be digitally signed and they can be easily downloaded. Digital Signature Certificates have been issued to the competent authorities for signing the authorization letters.
   4. This is a web application wherein the users can register, renew or issue a duplicate license for manufacturing to distribution of Seeds, Fertilizers & Pesticides. This application has been integrated with the Mee Seva web portal.
   5. “Mee Seva” in Telugu means, ‘At your service’, i.e. service to citizens. It is a good governance initiative that incorporates the vision of National e-Gov Plan “Public Services Closer to Home” and facilitates single entry portal for entire range of G2C& G2B services.   
       The objective of Mee Seva is to provide smart, citizen centric, ethical, efficient and effective governance facilitated by technology. The initiative involves universal and non-discriminatory delivery of all government services to citizens & Businessmen of all strata and improved efficiency, transparency and accountability for the government
   6. This OLMS project has been implemented in both Andhra Pradesh and Telangana states. The implementation of this application by the Agriculture Dept., Govt. of AP has improved the process of granting, reissuing and status of licenses very efficient, easy and more user friendly.
2. **Chandranna Rythu Kshetram (CRK)**
   1. The Minister for Agriculture announced the scheme ‘Chandranna Rythu Kshetram’ for the welfare of the farmers across the State.
   2. Model programme to boost farm income in AP by hiring multiple extension officers on contract basis and each of the officers would be accountable for 10 ha. The Government would provide an input subsidy of Rs. 5,000 per acre.
3. **Input Subsidy**

Input Subsidy is a program initiated by the Govt. of Andhra Pradesh to provide assistance/relief to farmers in case of lost crop due to natural disasters. The Dept. of Agriculture, Govt. of AP through the medium of Input Subsidy application integrated with e-Rythu Sevalu (online platform for online agriculture applications) collects the details of these farmers and offer assistance in the form of cash payments via online payment to the respective farmer’s bank account which is linked to his/her bank account.

1. **Soil**

Soil health plays a vital role to ensure Agricultural production in a sustainable manner. In Andhra Pradesh, soil sampling and soil programme organized in a systematic manner to evaluate the fertility status and to identify the soil problems (salinity/sodicity) if any to improve fertility and to reclaim the problematic soils.

The result of the soil analysis will be communicated to the respective farmers in the shape of soil Health card. The soil test results will be computerized by taking the soil test data online. So that the farmers can down load the soil analysis report from anywhere.

Soil sampling is essential for an accurate fertilizer recommendation. A sample must reflect the overall or average fertility of a field. so analysis, interpretations and recommendations accurately represent the nutrient or mineral status of the soil. An accurate evaluation will result in more efficient fertilizer use, which can increase yields, reduce costs and potentially reduce environmental pollution.

* 1. **Highlights:**
     + Tracking & monitoring of all samples taken state wide.
     + Web Land Integration
     + Google Maps Integration
     + All the department users (1600+) are connected through OLMS and perform their daily task

1. **Fertilizer Monitoring System (FMS)**
   1. The main objective of Fertilizer Monitoring System (FMS) is to keep track of all the movement, distribution and availability of fertilizers till Retailer level.
   2. Online License Management System will grant Authorization Letter for carrying fertilizer business. One who has a License for carrying business has to register in OLMS with his License number and type of License and can use the Fertilizer management system effectively.
   3. The Fertilizer Monitoring System (FMS) was launched by Hon’ble Commissioner & Director of Agriculture.
   4. The users i.e., manufacturers, wholesalers & retailers will input the data on the type and availability of fertilizers in stock with them. The state admin at the Commissionerate of Agriculture Department can view all the data on the availability of fertilizers in the state and hence monitor the availability and flow of Fertilizers from production till sale to end customer with Fertilizer Monitoring System web app tool.
2. **Polam Pilustundi**
   1. The State Government has launched an Innovative Programme “Polam Pilustundi” with an objective to strengthen the extension reach to nearly 7.6 million farmers’ doorstep for increasing productivity in agriculture and to increase income of the farmers.
   2. The Polam Pilustundi programme is being conducted for two days in a week in each Mandal duly covering two villages on each day by the Agricultural Department i.e., on Tuesday and Wednesday along with the officials of the allied departments and scientists of the Agricultural, Horticultural and Veterinary universities with the consent of the people representatives.
   3. The Agriculture and allied departments will prepare the list of production gaps / issues identified in 2-3 major crops/other activities and interventions to be taken up in the village to be visited. Thus, village / mandal specific plans will be prepared for the benefit of farmers. The Farmer-Scientist interaction programme will focus on the technological gaps identified in the Village Action Plan and also on the emerging issues in respect of Agriculture/Horticulture/Animal Husbandry/Dairy/Fisheries sectors.
   4. The user has following actions to do in the application
      1. **Data Collection:**

* MAO will Login into the Portal and Submit the Data.
* Information like
  + Photos and Meeting notes of the day
  + Allied Departments Attended
  + Public Representatives Attended
  + Number of Farmers
  + Villages Covered
  + Issues Mentioned by Farmers
  + Actions Taken
    1. **Reports:**
* Reports are generated Date Wise, District wise, Mandal Wise.
* Reports can be downloaded in Excel format
* Uploaded docs can be viewed instant by a mouse click

**Projects done for Other Departments**

Apart from the above mentioned projects/applications developed for the Dept. of Agriculture, Govt. of AP we also have expertise in developing and maintaining web portal applications for Andhra Pradesh State Cooperative Bank Limited (APCOB) and Telangana State Cooperative Apex Bank Ltd. (TSCAB) banks.

1. The Andhra Pradesh State Cooperative Bank Limited (APCOB), Vijayawada, is a Scheduled State Cooperative Bank for the State of Andhra Pradesh. Consequent on reorganization of the State of Andhra Pradesh, the Andhra Pradesh State Cooperative Bank has been reorganized/reconstituted into TSCAB and residual Andhra Pradesh State Cooperative Bank Limited.

The Bank is committed to agricultural and rural development through the Cooperatives. The cooperative credit system in Andhra Pradesh with the APCOB at its apex level is a federal system consisting of a family of 13 affiliated District Cooperative Central Banks (DCCBs), which in turn, have 386 Branches and 1959 Primary Agricultural Cooperative Societies (PACS) through which, developmental agricultural credit is provided, to serve a sizeable chunk of the total membership of the PACS of around 1 crore.

1. The Telangana State Cooperative Apex Bank Limited (TSCAB) is the State Cooperative Bank for the State of Telangana. The Bank was registered on 25.03.2015. Consequent to the reorganisation of the state of Andhra Pradesh and formation of State of Telangana by Government of India, it has been necessitated for separate State Cooperative Banks for both the States. Accordingly, the erstwhile combined Andhra Pradesh State Cooperative Bank was reorganised into the Telangana State Cooperative Apex Bank limited (TSCAB) for the state of Telangana and the Andhra Pradesh State Cooperative Bank for the state of residual Andhra Pradesh.

 TSCAB is committed to rural and agriculture development through its vast network of cooperatives spread throughout the State of Telangana.  The TSCAB stands for three tier structure, prosperity and cooperative principles. At village level we have   789 Primary Cooperative Credit Societies serving the farming community. At District level we have 9 District Cooperative Central Banks (DCCBs)as against 10 districts in the state of Telangana with a total branch network of 249. The Hyderabad and Rangareddy Districts are served by single DCCB. At State level the Telangana State Cooperative Apex Bank functions as a friend, guide and philosopher for the entire cooperative credit structure in the State of Telangana with 35 branches of its own, spread in twin cities of Hyderabad and Secunderabad catering the urban clientele.

* 1. The main aim of the applications APCOB & TSCAB is to maintain Centralized farmer database and record all the transactions being performed at PACS Level.
  + Master Information of Farmers
  + Land Details (Crop, Land Particulars)
  + Loan Details (date of sanction, repayment etc;)

1. And also we have developed a new web application for the Department of Health & Family Welfare, Govt. of Andhra Pradesh.

Swasthya Vidya Vahini (SVV) has been launched by the honorable Chief Minister of AP, Shri Chandrababu Naidu. Swasthya Vidya Vahini (SVV) is a first of its kind health education programme in the country aimed at developing disease-free Andhra Pradesh. As part of the 10-month programme, 10 themes have been developed and the students pursuing medicine, nursing, home science and psychology would be divided into 446 teams and have to visit the villages and create awareness among people on each theme. The Swasthya Vidya Vahini programme will be implemented by the health, medical and family welfare departments by involving the students of medical, dental, Ayush, nursing and home science colleges. The objectives of the Swasthya Vidya Vahini (SVV) are educating the public to promote sanitation and hygiene in villages and to build a Swachh Andhra Pradesh. It also aims to educate people about preventive health care and promote a healthy living style. The students will educate mothers in Anganwadis, the schoolchildren and villagers regarding healthy living.

The web application which we have developed for this programs is instrumental in collection the data from the Student teams and reflecting the collected data in the Dashboard Reports. The reports in the Dashboard are crucial for the State heads to monitor and see the progress of the SVV program.

1. We are also developing other application in both Android and web for the Department of Health and Family Welfare, Govt. of Andhra Pradesh that are to be launched by the end of January 2017.

**Conclusion**

As showcased and explained in detail about our expertise in developing and implementation of applications on multiple platforms with different technologies we believe that our understanding of the domain of our clients is very well within their standards and hope that with our expertise in the developing such customized applications we can also help in improving the processes of the schemes/programs introduced by the Department of Agriculture, Govt. of Jharkhand.

It is our sincere request that you consider our proposal for the development of similar applications to aid in the success running and implementation of projects by the Department of Agriculture, Govt. of Jharkhand.