InSight –Quality control App

The Government of Andhra Pradesh has taken the initiative to address the issues and bring greater transparency to the quality control process through the implementation of a new automated sampling system called “InSight”.

What is “InSight”

InSight is an AI/ML-based platform that connects input manufacturers, input dealers, sample collection teams, input inspectors, regional coding centres, integrated agri labs and farmers.

The implementation of InSight is envisaged in three stages.

Stage 1: Sampling, Coding, Results generation and Results Communication to be automated

Stage 2: Integration of InSight with Online License Management System (OLMS)

Stage 3: Automation of sampling process, randomly selecting the kind and variety, batch/lot, dealer outlet, and company, thereby minimizing manual intervention and discretion

Implementation of Stage 1 completed and Stage 2 is in process. Efforts are being made to completely automate the system once OLMS is integrated. The “Insight app” was launched on July 8, 2021.

By automating the sampling process, InSight aims to ensure the accuracy of test results and improve the transparency of the quality control process. With the implementation of InSight, the Government of Andhra Pradesh is taking a significant step towards improving the quality of agricultural inputs and promoting sustainable farming practices in the state.

Stakeholders & Process flow

The InSight and Quality Control process involves various stakeholders, each playing a crucial role in ensuring the availability of quality agricultural inputs in the market. The Integrated Agri Labs Section, O/o Agricultural Commissionerate, Guntur oversees the entire process and assigns sample targets to districts. The District Agricultural Officer (DAO) assigns targets to Input Inspectors, who are responsible for drawing samples from dealer outlets. The samples are then dispatched to the Regional Coding Center (RCC), which assigns a unique code to the sample and sends it to the Integrated Agri Lab (IAL) for analysis. The IAL staff analyzes the samples and provides the results to the official analyst, who verifies and authorizes them before they are communicated to the Input Inspector. Through the efforts of these stakeholders, the quality of agricultural inputs is maintained, benefiting farmers and the agricultural industry.

1. **Agricultural Commissionerate, Guntur**

   The Integrated Agri Labs section of Agricultural Commissionerate, Guntur assigns sample targets to districts based on the e-cropped area and the number of dealer outlets in the districts. They monitor and oversee the entire quality control process, including sample collection, analysis, and dissemination of results, to ensure the availability of quality agricultural inputs in the market.

2. **District Agricultural Officer (DAO)**

   The DAO assigns sample targets to the Input Inspectors based on the cropped area and number of dealer outlets in their jurisdiction. They ensure that their assigned Input Inspectors carry out the sampling process as per the guidelines and within the stipulated timeframe.

3. **Input Inspectors**

   The role of Input Inspectors is crucial in ensuring the availability of quality agricultural inputs in the market. They are notified as Input Inspectors under Seed Act, Fertilizer Control Order, and Insecticide Act Acts, and as part of their job chart, they randomly visit dealer outlets to draw samples. They use the InSight-Quality Control App to enter sample details and create a unique sample ID.

Once the samples are drawn, the Input Inspectors dispatch them as parcels to the assigned Regional Coding Center (RCC). It is their responsibility to ensure that the samples are intact and all essential documents are included. The Input Inspectors play a critical role in the process flow as they are the first point of contact for drawing samples and ensuring their quality. Through their efforts, they help to maintain the quality of agricultural inputs in the market and protect the interests of farmers.

4. **Regional Coding Center (RCC)**
   Upon receiving the parcels from the Input Inspectors, the RCC verifies the condition of the samples and accepts them if they are intact. The RCC changes the container of the sample, hides the sample details, and assigns a separate code to the sample. The RCC dispatches the sample as a parcel, and a parcel ID is generated, which is visible to the Integrated Agri Lab (IAL).

5. **Integrated Agri Lab (IAL)**
   The IAL staff analyzes the samples received and enters the results in the dashboard against the sample code. The official analyst of the IAL verifies the entered results and authorizes the result. On results authorization, decoding of the sample takes place, and a result copy gets generated, which is addressed from the official analyst to the Input Inspector who has drawn the sample.

Potential of InSight App:

- The InSight App has the potential to revolutionize the process of ensuring the availability of quality agricultural inputs like seeds, fertilizers, and pesticides. By streamlining the process and providing a transparent and accountable system, it can help reduce the possibility of corruption and increase public trust in the agricultural sector.
- One of the significant advantages of the InSight App is that it automates the assignment of samples to the Integrated Agri Lab, reducing the time required for analysis.

- Additionally, the InSight App facilitates communication between different stakeholders, such as input inspectors, RCCs, and IALs, which can lead to better coordination and faster resolution of any issues that may arise.
- Overall, the InSight App has enormous potential to improve the quality of agricultural inputs available in the market and help protect the interests of farmers.

Revolutionizing Agricultural Quality Control: The Future of Insight Up

- In order to ensure that only licensed products are sold in Andhra Pradesh markets, the OLMS system will be linked with the InSight App. Licensed manufacturers will be given a separate module in the app to upload their stocks offered for sale in Andhra Pradesh, along with the final destination of these products (dealer/distributor). Only licensed products will be allowed to be uploaded in this module. Products that do not have an entry in the InSight App will be treated as unapproved and issued a stop sale. This helps prevent the entry of unapproved products and companies into the market, and also helps control the entry of banned or misbranded lots/batches.

- By having manufacturers upload their stocks offered for sale in Andhra Pradesh in the InSight module with their final destination (dealer/distributor), the app is able to keep track of the presence of specific products and their batch numbers in each outlet. Based on past history and product testing results, the app assigns input inspectors to draw samples from these outlets. This ensures that the process is streamlined, transparent, and accountable.

- In addition, farmers will be given access to the InSight app, allowing them to verify the quality of a product before making a purchase by searching for the lot number/batch number. They can also search for various products offered by a company and their quality and availability in the InSight App. This helps farmers make informed decisions about their purchases and promotes transparency in the agricultural sector.

InSight

Quality Control App

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