

eQuality Electronic Quality Assessment Solution of Agricultural Commodities for eNAM



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Nodal Institute: C-DAC Kolkata

Collaborating Institute: ICAR-IARI, New Delhi



GrainEx

An Artificial Intelligence (AI) based Expert Solution for Quality Analysis of multiple Crops

Name of Crops:

Tur (Arhar Whole), Moong (Whole), Masoor (Whole), Bengal gram, Sorghum and Wheat

System Features:

- Bench-top mini conveyerised sample feed system.
- Electronic vision and digital image processing based rapid and non-invasive inspection.
- Computer based real time automated image capturing and analysis solution.
- Overhead scanning device with built-in LED based controlled illumination for image acquisition.
- Automated sample spreading.
- Crop specific feeding mechanism for sample spreading on conveyor.
- Flexible Sample size and Non-invasive image analysis technology.
- Crop specific software with user friendly graphical interface for online image capturing and analysis.
- Data presentation, data archival and traceability.
- Report generation.
- Operated with computer with Windows® Operating System.



Table-top GrainEx Conveyerized

Target Beneficiaries:

- Farmers, Traders and Exporters
- APMCs, Mandies and Processing Industries
- Commercial Agriculturists
- Research and Quality Control Laboratories
- Govt. Authorities and Stakeholders of Agri Marketing at all levels

Benefits:

- May be useful for remote users on virtual marketing platform with nationwide outreach.
- Ensure right price of commodities to farmers and shield them from intermediaries.
- Ensure transparency of dealings at all levels of Agri-Marketing.

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