

ANNADARPAN^{SMART}

A COMPUTER VISION SOLUTION FOR RICE QUALITY ANALYSIS



ANNADARPAN^{SMART}

A computer operated portable, fast, non-invasive image analysis solution for online rice quality analysis based on its physical appearance.

System Features:

- Detachable, enclosed metal cabinet, with computer based portable system.
- Scanning device with USB interface for image capturing.
- Large sample handling tray with manual sample spreading (can accommodate approx. 10 gm of rice sample).
- User friendly graphical software interface for online image capturing, analysis, report generation etc.
- Display of quality analysis results as per Indian standard.
- Operated with laptop/desktop computer with Windows[®] operating system.
- Parameters of rice grains can be stored in database with sample ID.
- Representation of quality analysis result in graphical as well as tabulated format.
- Report generation using .pdf format, searching of report.



Annadarpan^{SMART} System



Sample Tray with rice spreading



Image scanner with Sample Tray

Appearance based Quality Analysis Parameters of Rice (In % of Weight):

- Good grains
- Broken rice (Big broken & Small Broken)
- Admixture
- Chalky grains
- Red grains
- Damaged grains
- Discoloured grains
- Foreign matter
- Classification of rice grains based on size & shape



Prospective Users:

- Grain Procurement Agencies
- Agriculture Market
- Research Laboratories
- Agri / Food Quality Control Laboratory
- Exporters & Marketeers at all levels



Annadarpan^{SMART} Software Screens



Centre for Development of Advanced Computing (C-DAC)
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 Bangalore Chennai Hyderabad Kolkata Mohali Mumbai New Delhi Noida Pune (HQ) Silchar Thiruvananthapuram
www.cdac.in