Machine Learning Backed Food Quality Testing

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Quality Testing of Agri Produce

Challenges of Manual Quality Testing
Cumbersome, Unreliable & Time Consuming
Uses patented AI & Computer Vision techniques to enable truly digital Quality Testing

Our Solution

Quick
1 min to result (95% time reduction)

Accurate
Covers each grain from multiple sides

Repeatable
Removes any subjectivity with standardization

Universal
One solution for all Crops

Verifiable
Enables truly digital trade with verifiability and tamper proof operation
### Analysis Results

<table>
<thead>
<tr>
<th>Particular</th>
<th>Grade A Limit</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broken (A and B) Grains</td>
<td>Upto 25.0</td>
<td>16.92</td>
</tr>
<tr>
<td>Big Broken (A) Grains</td>
<td>Upto 24.0</td>
<td>16.43</td>
</tr>
<tr>
<td>Small Broken (B) Grains</td>
<td>Upto 1.0</td>
<td>0.49</td>
</tr>
<tr>
<td>Foreign matter</td>
<td>Upto 0.5</td>
<td>0.03</td>
</tr>
<tr>
<td>Pointdamaged and Damaged Grains</td>
<td>Upto 3.0</td>
<td>2.39</td>
</tr>
<tr>
<td>Discolored Grains</td>
<td>Upto 3.0</td>
<td>1.32</td>
</tr>
<tr>
<td>Admixture of Lower Class</td>
<td>Upto 6.0</td>
<td>2.12</td>
</tr>
<tr>
<td>Redline Grains</td>
<td>Upto 3.0</td>
<td>0.00</td>
</tr>
<tr>
<td>Moisture</td>
<td>Upto 14.0</td>
<td>12</td>
</tr>
<tr>
<td>Chalky Grains</td>
<td>Upto 5.0</td>
<td>0.39</td>
</tr>
<tr>
<td>Average L-B Ratio</td>
<td>-</td>
<td>2.62</td>
</tr>
</tbody>
</table>

- % by Count
- % by Weight
- Absolute Count
- Varietal Admixture
- Sample Uniformity Distribution

**Verifiable Image Report**
Price of Paddy Hamsa across AMC Mahaboobnagar and AMC Badepally that are 40 km apart during Peak Arrival Season

Due to lack of competition, price of Paddy Hamsa in Badepally was 10% less than in Mahaboobnagar
MATT provides multiple user specific report for each test to find best use of any produce thus ensuring best price.
Story of Chaffy Grains (Taaly) in Paddy

QC to Quality Diagnostics

- MATT Historical Test Reports
- Soil, Geo Location, Weather Data

Agri Expert AI/Human

Customized Feedback to Farmer
The Beginning!!!

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