



Building Quality Accelerating Trade

New-age Technology platform to evolve commodity assessment processes for effective procurement, trade, production and consumption across global food value chains...

SURYA TECH INNOVATIONS

Our platform provides meticulous analysis with artificial intelligence and advanced data sciences, to evolve quality assessment processes in Surya businesses which refer to the current problems of the sector, mainly related to quality evaluation, such as vulnerability towards possibility of human error, sparse speed, besides poor standardisation and reliability of related results on the current used methods.

We apply computer vision, spectral analytics and internet-of-things to instantly analyse and produce results for food quality.

We Innovate agricultural value chains with technologies that digitises food quality and safety and provide end-to-end commodity traceability.



Quality

Safety

Traceability

SOLUTION

BUSINESS

Trade Parameters
Evaluation

Safety Parameters

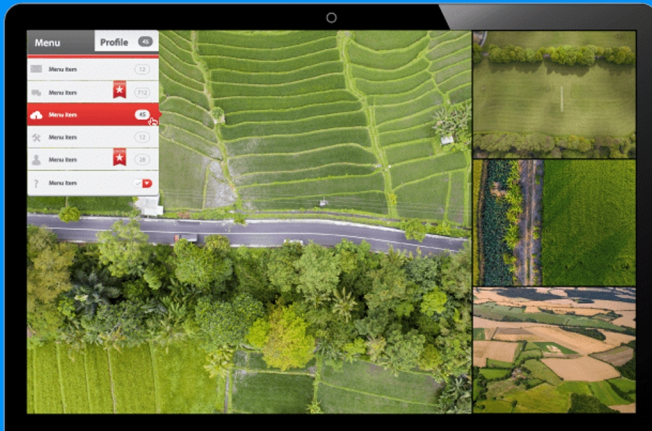
Field Deployment
along with other
Parameters

TECHNOLOGY

Computer Vision

Spectral Analytics

Internet-of-Things



INNOVATIONS IN RAPID COMMODITY ASSESSMENTS

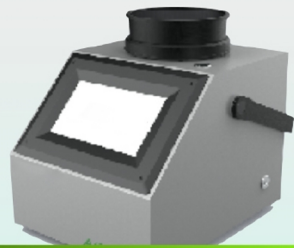
Chemical Assaying Devices



NANO

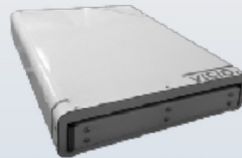


MAX

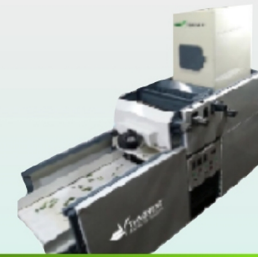


PRO

Physical Assaying Devices



VISIO



FLC

ST-X



Portable & Field Ready

All the devices are portable and field ready with cloud connectivity and transfer data while in sync



Addressing Major commodities

Liquids, Powders, Grains, Leaves, Solids. We have got them covered.



Instant Results

Our slogan is "Less than 30 seconds" and most of our devices are conforming to the slogan. Need improvement in few.



Entire Results

Only platform which provides TRUE physical and chemical quality checks.

FOCUSED VERTICALS

Extensive coverage of all major, high value commodities, having high sentivity to quality.



BEVERAGES

Tea, Coffee, Milk
and Cocoa



GRAINS & OIL SEEDS

Wheat, Rice,
Paddy, Maize,
Barley, Soybean
and Mustard



SPICES

Tumeric, Chilli,
Pepper, Ginger
and Menthol



GRAINS & OIL SEEDS

Soyabean and
Mustard DOC,
Cotton seed,
DORB and Rice
Polish



SPICES

Soyabean and
Mustard DOC,
Cotton seed,
DORB and Rice
Polish

Milk

Instant analysis of composition (Protein, Fat, SNF) and adulterations (Melamine, Vegetable oil, Detergent, Urea, Starch, Sugar and Salt etc)

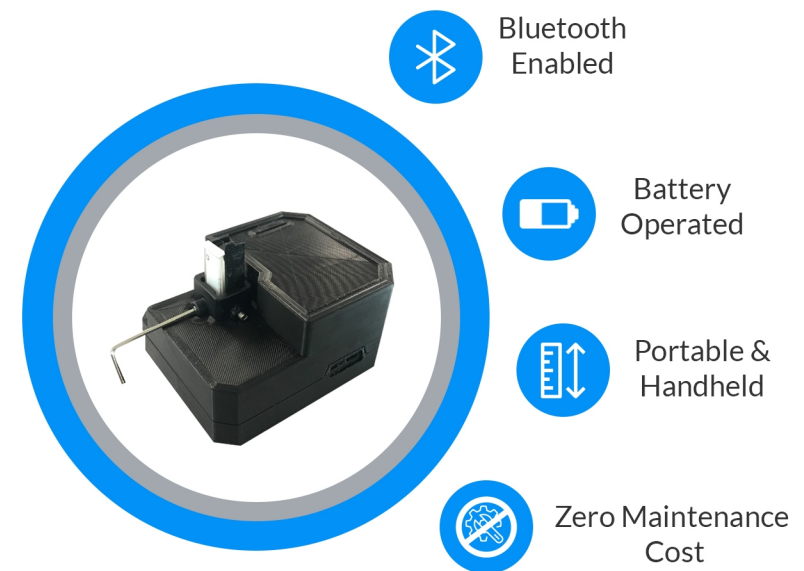


Composition and Adulterant Analysis

NIR-based rapid milk quality assessment solution

Determination of compositional parameters such as FAT%, SNF% and Protein% and added water% for accurate nutritional measurement.

Rapid quantitative detection of adulterants such as Palm Oil and other vegetable oils, Detergent, Starch, Urea, Melamine and salt/sugar.





Contamination Testing and Composition

Composition

- ☑ Fat, SNF and Protein and additional derived parameters

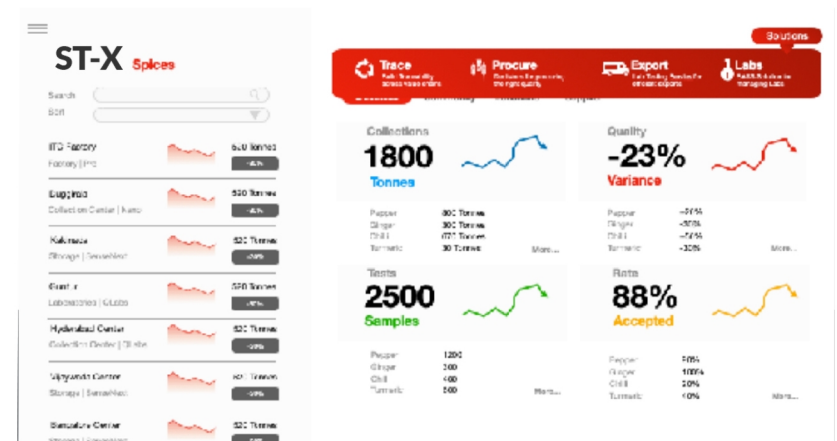
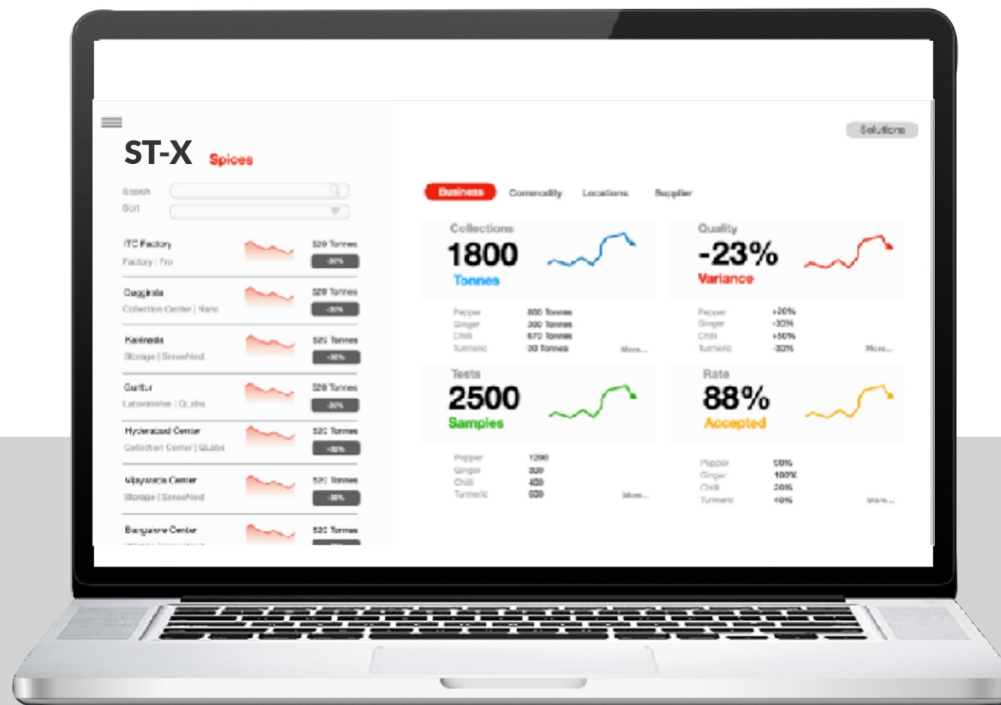
Adulteration Testing

- ☑ Palm oil and other Veg oils
- ☑ Detergent
- ☑ Starch
- ☑ Urea
- ☑ Melamine
- ☑ Salt
- ☑ Sugar

Fast-track Procurement Decisions

Using cloud-based SaaS Platform

Scaling up with further SAAS Solutions



1. Data on total collection by collection centre, along with information on quality, by farmer.
2. Monitor trends on variance in quality, quantity in procurement real-time, across various time range.
3. Collective visualisation of data collected from various hardware, across locations.

PROCUREMENT MANAGEMENT

Extensive coverage of all major, high value commodities, having high sentivity to quality.

- ☑ AI-enabled procurement insights to refine procurement across commodities.
- ☑ QR-enabled reports to increase transparency across vendors.
- ☑ Vendor scoring, based on trend of quality for better procurement negotiations.
- ☑ Real-time reporting of procurement across all centres.Data on quantity, along with quantitative
- ☑ quality, for each vendor/farmer.



Composition and Adulterant Analysis

NIR-based rapid non-destructive chemical quality assessment.

Determination of parameters such as Moisture, Protein, Fat, Starch, Fibre and ash content in inbound raw materials as well as finished compound feed.



Animal Feed

Instant analysis of nutritive components of major raw materials for compound feed manufacturing.

