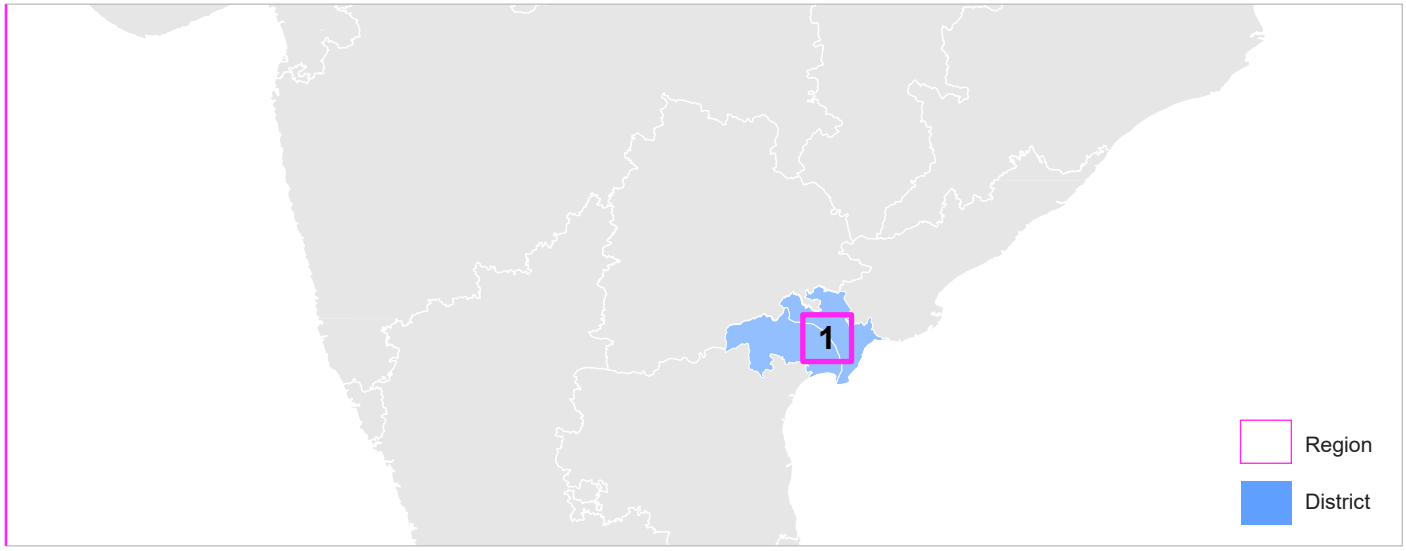
JOWAR

Jowar is one of India's major cereal crops. India is the second-largest producer of jowar in the world. This crop is ideally suited for semi-arid agro climatic regions of the country and it gives reasonably good yield with minimal requirement of irrigation and fertilizers. The major jowar producing states are Maharashtra, Karnataka, Andhra Pradesh, Madhya Pradesh, Gujarat, Rajasthan, Uttar Pradesh (the Bundelkhand region) and Tamil Nadu.

Metric Tons (MT)

Region ID.	State	Production	Risk Free Production	Available Production	Available Risk Free Production
R-1	Andhra Pradesh	56,103	54,854	5,610	5,485

Focus Regions



Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
East Coast Plains & Hills (ECPH)	Andhra Pradesh	R-1	Guntur, Krishna	CSH 29, CSH 30, CSH 32, CSH 33, CSH 34, CSV 27, CSV 28, CSV 31, PSV-56

Seasonal Calendar

The seasonal details are depicted in the calendar by their agro-climatic zones

Agro-climatic zone	Region	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Dec
ECPH	R-1			Kharif						
							Rabi			

Note: **ECPH** East Coast Plains & Hills

Sowing Mid season Harvesting

Quality Specifications

Quality by both standard post-harvest parameters and specific biological indicators for better price realisation

	Jowar	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
No.	Tradable parameters	211	212	213	214	215
I	Moisture (% by wt)	01.00 - 09.00	09.01 - 10.00	10.01 - 12.00	12.01 - 14.00	14.01 - 16.00
II	Admixture (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00
III	Immature & Shriveled grains (% by wt)	01.00 - 02.00	02.01 - 03.00	03.01 - 04.00	04.01 - 06.00	06.01 - 08.00
IV	Foreign matter (% by wt)	00.01 - 00.10	00.01 - 00.10	00.01 - 00.10	00.11 - 00.60	00.61 - 01.00
V	Other edible grains (% by wt)	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00	03.01 - 04.00	04.01 - 06.00
VI	Damaged/Discoloured grains (% by wt)	00.01 - 01.00	01.01 - 03.00	03.01 - 05.00	05.01 - 07.00	07.01 - 10.00
VII	Weevilled Grains (% by count)	00.01 - 00.50	00.51 - 01.00	01.01 - 02.00	02.01 - 04.00	04.01 - 06.00

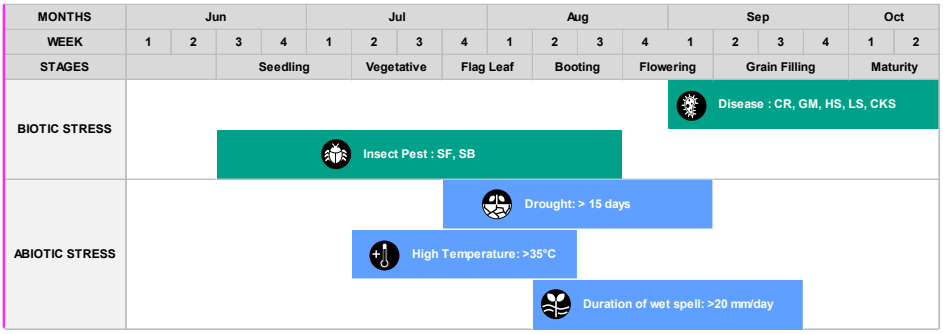
Contract Summary

A brief overview of the commodity traded in the Agriota E-Marketplace.

Lot ID	LOT09JO12
HSN Code	10082910
Commodity	Jowar
Variety	CSH 29
Grade	Grade-2 (Band-I)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	14.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	2.8 MT
Allowable Lot Variance (-)	1.4 MT
Rights per Lot (No.)	3
Current Lot Size	13.50 MT
Contract Price (Per Unit)	₹ 21,650
Fees	2.00%
Taxes	0.00%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 2,98,121
Logistic Hub Location	CW Rayanapdu,Central Warehouse, Rayanapadu, Vijayawada Rural, Distt - Krishna

Dynamic Crop Calendar (DCC)

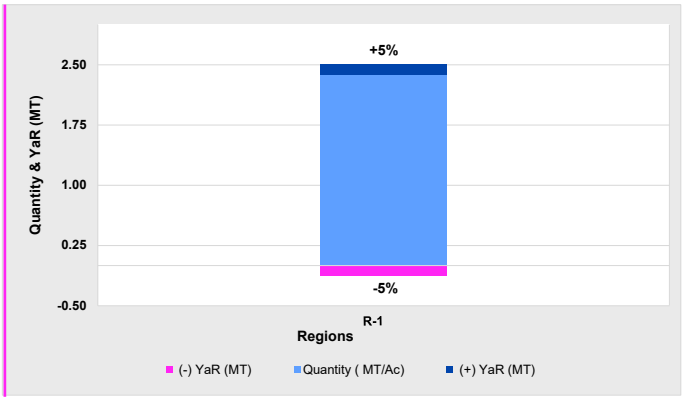
It is a real-time tool that tracks and forecasts stresses and their severity by commodity, variety and phenophase wise. The DCC helps to estimate crop health, yield and risk for individual fields at various temporal and geo-spatial levels. DCC also helps in customised monitoring, alert generation and advisory activities.



Note: CR Charcoal Rot, **GM** Grain Mould, **HS** Head Smut, **LS** Loose Smut, **CKS** Covered Karnal Smut, **SF** Shoot Fly, **SB** Stem Borer

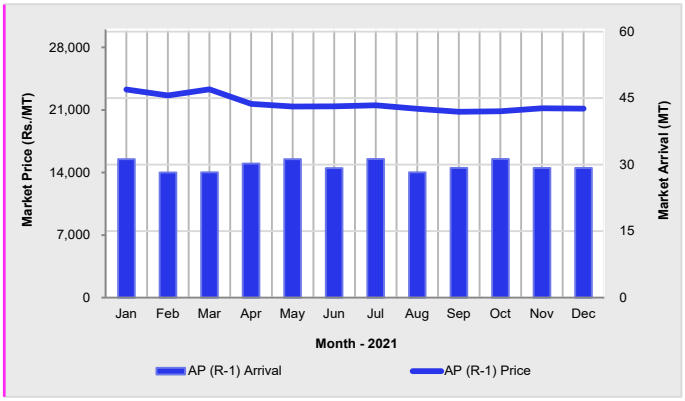
Yield at Risk (YaR) - Stability

The fluctuation/risk in yield or productivity varies from region to region. The region-wise variation on the yield is depicted in the graph below.



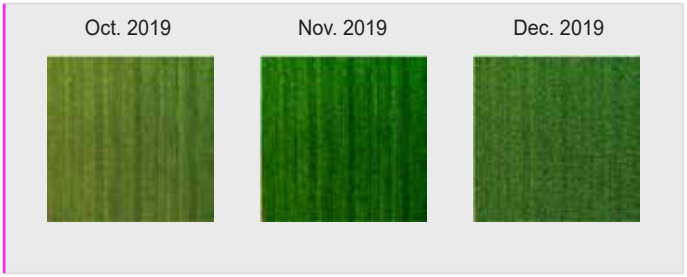
Price Volatility

The monthly fluctuations in price for different benchmark markets are shown below.



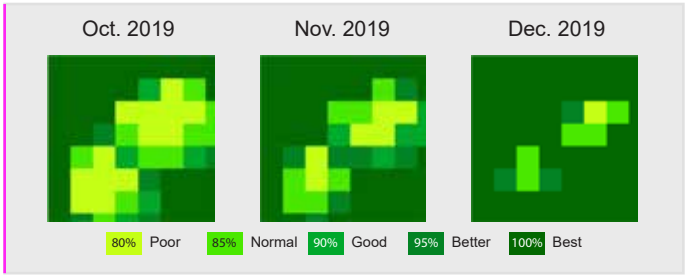
Aerial Photo

Aerial photo provides the visual representation of the field periodically.



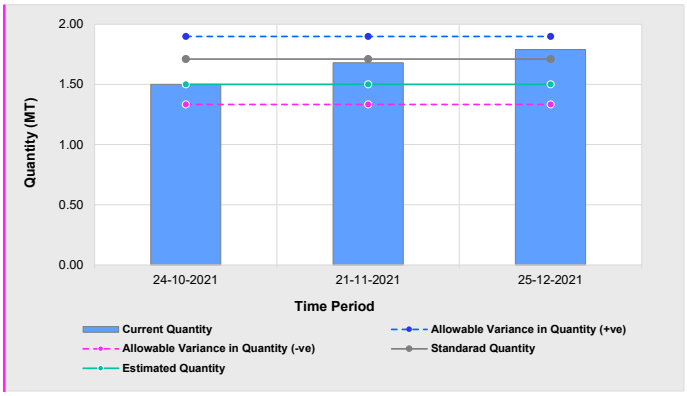
Multispectral Yield Analysis

Tool that provides a Normalised Differential Vegetation Index (NDVI) analysis of individual fields to ground-truth indices. It is standardised across time periods for quick visual interpretation.



Ground-Truth Risk Report

Real-time estimation of yield and its threshold at various stages of crop growth, based on field monitoring of plant health and detection of stress.



Multispectral Analysis

Normalised Differential Vegetation Index (NDVI) comparison of field versus regional indices across commodity, variety and phenophase.