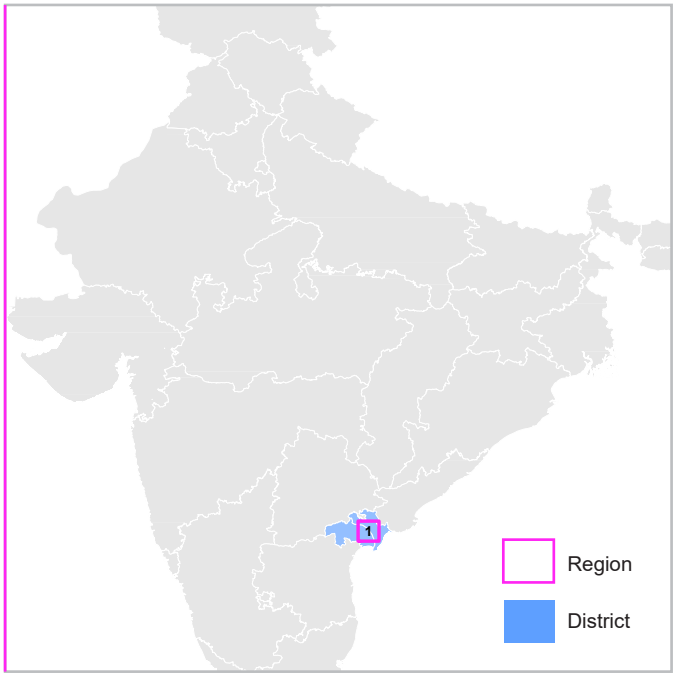
URAD

Black gram known as urad is an important pulse crop that is grown throughout the country. Black gram plays an important role in the Indian diet, as it contains vegetable protein and supplements a cereal-based diet. It contains about 26% protein, which is almost three times that of cereals and other minerals and vitamins. It is also used as nutritive fodder, especially for milch animals. Major black gram-producing states include Madhya Pradesh, Uttar Pradesh, Punjab, Maharashtra, West Bengal, Andhra Pradesh, and Karnataka.

Focus Regions



Metric Tons (MT)

Region ID.	State	Production	Risk Free Production	Available Production	Available Risk Free Production
R-1	Andhra Pradesh	67,377	62,942	6,738	6,294

Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
Eastern Coastal Plains & Hills (ECPH)	Andhra Pradesh	R-1	Guntur, Krishna	CO-6,Mash-391,VBN-7,Krishna,Sri,Nandi,Maruti,Pu-31,LBG 752,LBG-402.

Seasonal Calendar

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

Agro-climatic zone	Region	Sept	Oct	Nov	Dec	Jan	Feb	Mar
ECPH	R-1				Rabi			

Sowing Mid season Harvesting

Quality Specifications

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

	Urad	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
No.	Tradable parameters	141	142	143	144	145
I	Moisture (% by wt)	01.00 - 09.00	01.00 - 09.00	09.01 - 10.00	10.01 - 12.00	12.01 - 14.00
II	Foreign matter (% by wt)	00.01 - 00.10	00.11 - 00.50	00.51 - 01.00	01.01 - 01.50	01.51 - 02.00
III	Other edible grains (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00
IV	Damaged grains (% by wt)	01.00 - 02.50	01.00 - 02.50	01.00 - 02.50	02.51 - 03.50	03.51 - 05.00
V	Weevilled Grains (% by count)	01.00 - 03.00	01.00 - 03.00	01.00 - 03.00	03.01 - 05.00	05.01 - 10.00
VI	Admixture (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00
VII	Immature & Shriveled (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00

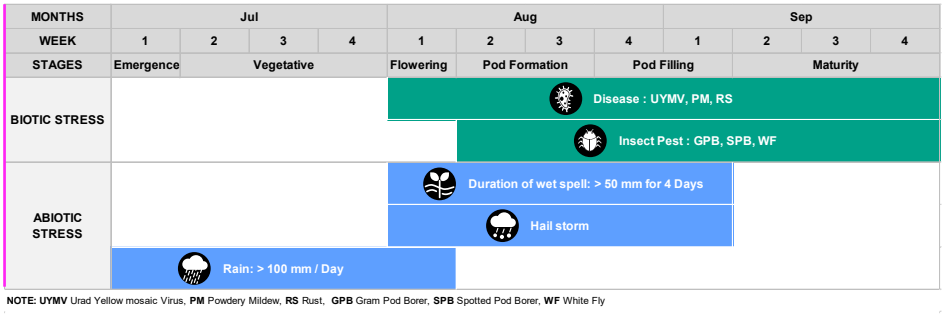
Contract Summary

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

Lot ID	LOT08UR13
HSN Code	07133100
Commodity	Urad
Variety	Mash-391
Grade	Grade-I (Band-III)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	8.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	0.8 MT
Allowable Lot Variance (-)	1.6 MT
Rights per Lot (No.)	4
Current Lot Size	7.00 MT
Contract Price (Per Unit)	₹ 69,200
Fees	1.00%
Taxes	0.00%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 4,89,244
Logistic Hub Location	Ponukumadu Primary Agricultural Warehouse,Ponukumadu, Unguturu Mandal, District- Krishna-521312

Dynamic Crop Calendar (DCC)

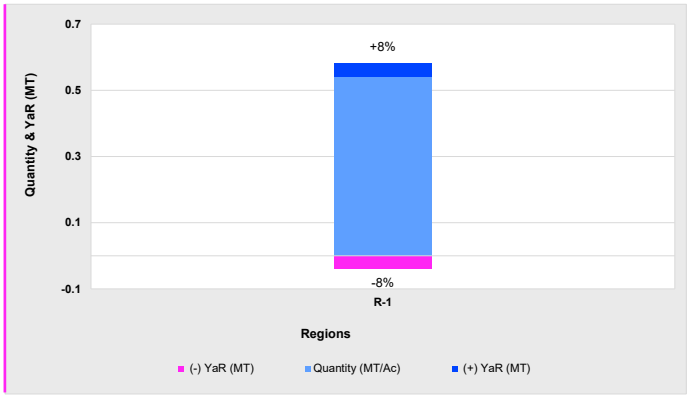
It is a real-time tool that tracks and forecasts stresses and their severity by commodity, variety and phenophase wise. The DCC helps to estimate crop health, yield and risk for individual fields at various temporal and geo-spatial levels. DCC also helps in customised monitoring, alert generation and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



NOTE: UYMV Urad Yellow mosaic Virus, **PM** Powdery Mildew, **RS** Rust, **GPB** Gram Pod Borer, **SPB** Spotted Pod Borer, **WF** White Fly

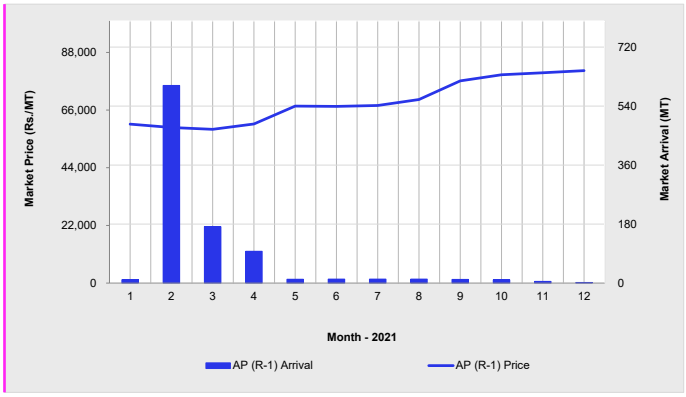
Yield at Risk (YaR) - Stability

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.

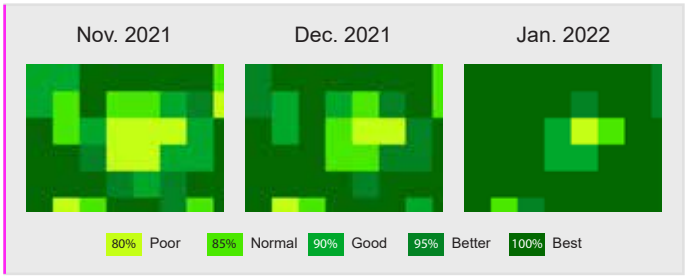


Aerial Photo

Aerial photo provides the visual representation of the field periodically.

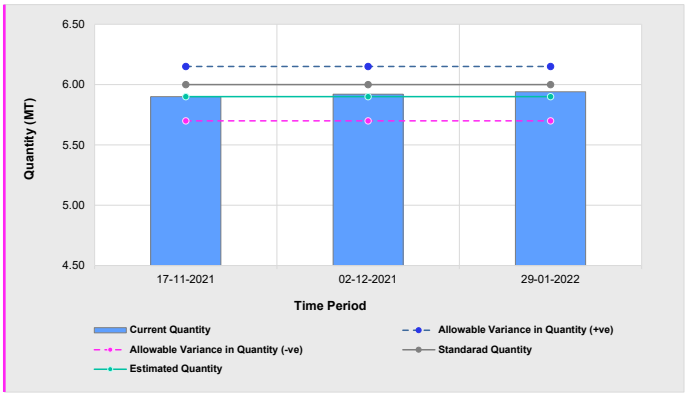
Multispectral Yield Analysis

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.