

TURMERIC

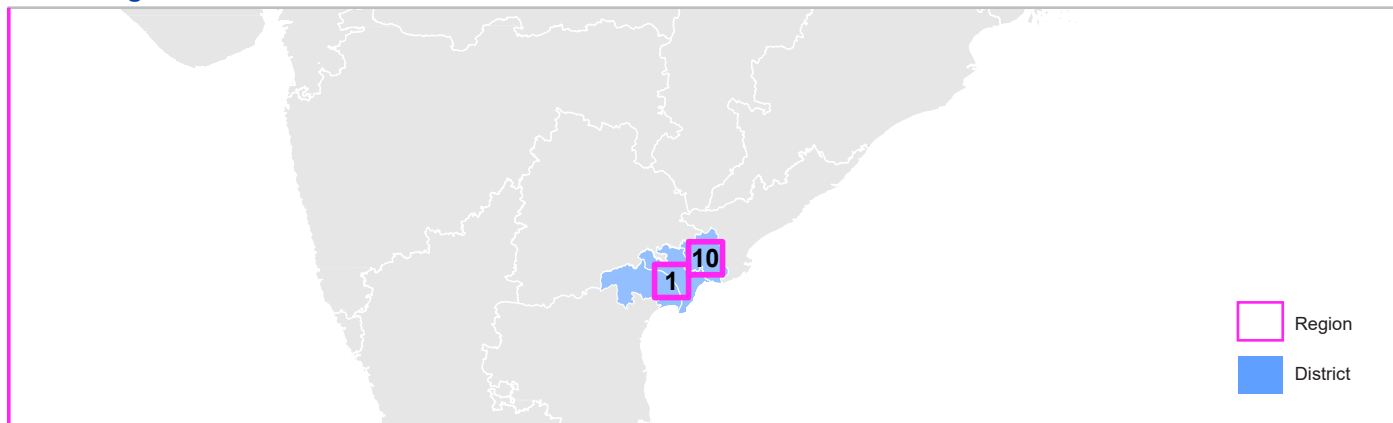


Turmeric is one of the most important and ancient spices of India having a very good commercial value for spice oils and oleoresins. India is the largest producer and exporter of turmeric in the world. Turmeric holds about 6% of the total area under spices and condiments in India. The main turmeric producing states are Andhra Pradesh, Tamil Nadu, Orissa, Karnataka, West Bengal, Gujarat and Kerala. The major international markets are the United States of America (USA), Iran, Japan, the United Kingdom (UK), Bangladesh, Sri Lanka, South Africa, Germany and the Netherlands.

Metric Tons (MT)

Region ID.	State	Production	Risk Free Production	Available Production	Available Risk Free Production
R-1	Andhra Pradesh	24,736	21,822	2,474	2,182
R-10	Andhra Pradesh	29,500	23,556	2,950	2,356

Focus Regions



Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
East coast Plains and Hills (EPH)	Andhra Pradesh	R-1	Guntur, Krishna	IISR-Pragati, Kasturi, Suguna (PCT-13), Sudharshana (PCT-14), Nizamabad Bulb, Amruthapani, C.L.A. 317, IISR Prathibha, IISR Prabha, Armoor, Duggirala, Tekurpeta, Mydukur, C.L.L. 326, C.L.L. 327
		R-10	West Godavari	



Seasonal Calendar

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

Agro-climatic zone	Region	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
EPH	R-1											
	R-10											

Note: EPH East coast Plains and Hills

■ Sowing
 ■ Mid season
 ■ Harvesting



Contract Summary

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

Lot ID	LOT05TU22
HSN Code	09103020
Commodity	Turmeric
Variety	Kasturi
Grade	Grade-2 (Band-I)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	5.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	1.00 MT
Allowable Lot Variance (-)	0.5 MT
Rights per Lot (No.)	1
Current Lot Size	4.80 MT
Contract Price (Per Unit)	₹ 53,900
Fees	1.00%
Taxes	0.00%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 2,61,307
Logistic Hub Location	Rajeshwari, Athota, Athota(P), Kolipara(M), Guntur(D), Andhra Pradesh 522304



Quality Specifications

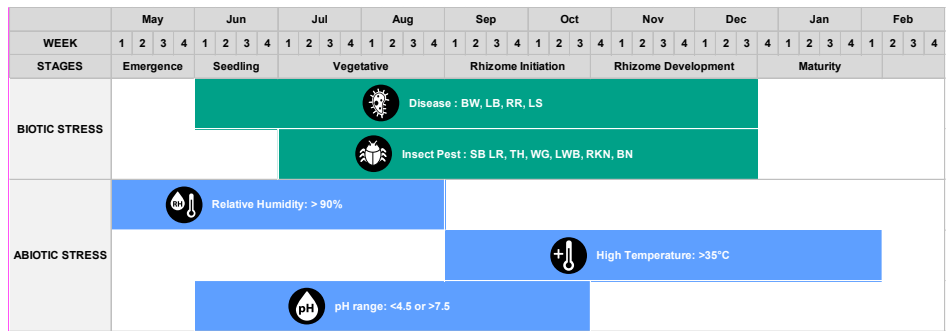
Quality by both standard post-harvest parameters and specific biological indicators for better price realisation

No.	Turmeric	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
No.	Tradable parameters	461	462	463	464	465
I	Moisture (% by wt)	01.00 - 09.00	09.01 - 10.00	10.01 - 11.00	11.01 - 12.00	12.01 - 13.00
II	Foreign matter (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 01.50	01.51 - 02.00
III	Defective Rhizomes (% by wt)	01.00 - 05.00	01.00 - 05.00	01.00 - 05.00	05.01 - 07.00	07.01 - 10.00
IV	Damaged matter (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00
	Biochemical Parameters					
I	Curcuminoid content (% by wt)	05.01 - 06.00	04.01 - 05.00	03.01 - 04.00	02.01 - 03.00	Not less than 2.0



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.

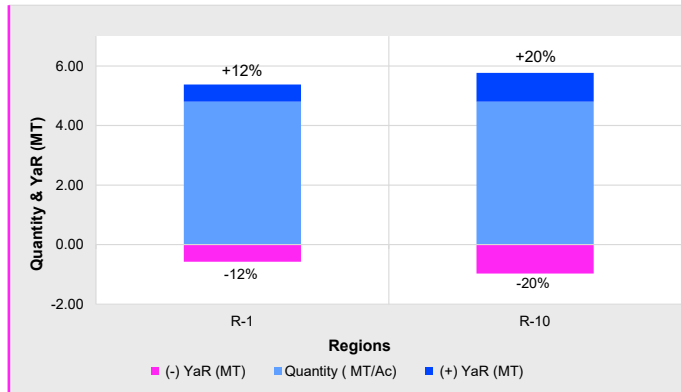


Note: BW Bacterial Wilt, LB Leaf Blight, RR Rhizome Rot, LS Leaf Spot, SB Shoot Borer, LR Leaf Roller, TH Thrips, WG White Grub, LWB Lace Wing Bug, RKN Root Knot Nematode



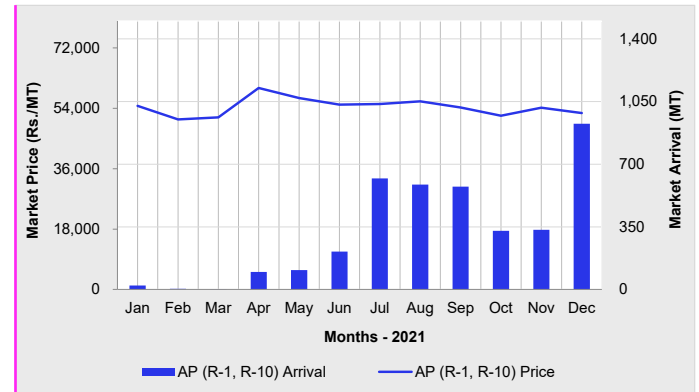
Yield at Risk (YaR) - Stability

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.



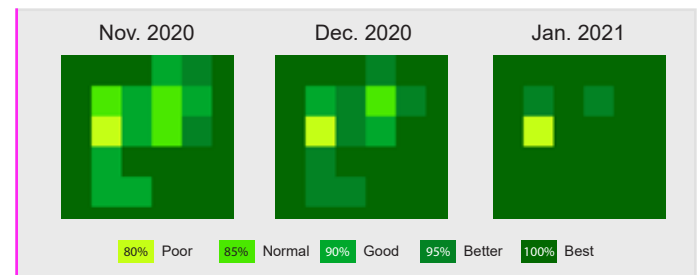
Aerial Photo

Aerial photo provides the visual representation of the field periodically.



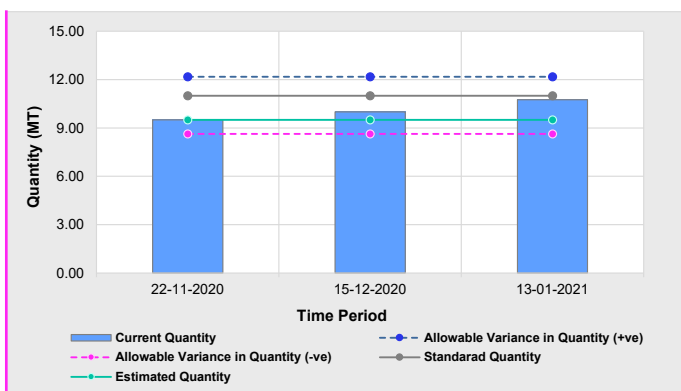
Multispectral Yield Analysis

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.

