# ARHAR

Focus Regions

Pigeonpea, Arhar, or Tur is native to India. It is the second most important pulse crop after gram and a major Kharif crop of the country. India ranks first in the area and production of Pigeonpea globally. More than 90% of production is from Maharashtra, Karnataka, Madhya Pradesh, Uttar Pradesh, Gujarat, Jharkhand, Telangana, and Andhra Pradesh. The major export markets are Algeria, The United Arab Emirates (UAE), Sri Lanka, Turkey, and The United States of America (USA).

Metric Tons (MT)

Region ID.	State	Production	Risk Free Production	Available Production	Available Risk Free Production
R-8	Madhya Pradesh	29,398	26,367	2,940	2,637
R-300	Maharashtra	25,176	21,238	2,518	2,124
R-301	Maharashtra	30,027	22,347	3,003	2,235
R-303	Maharashtra, Madhya Pradesh	44,801	35,727	4,480	3,573
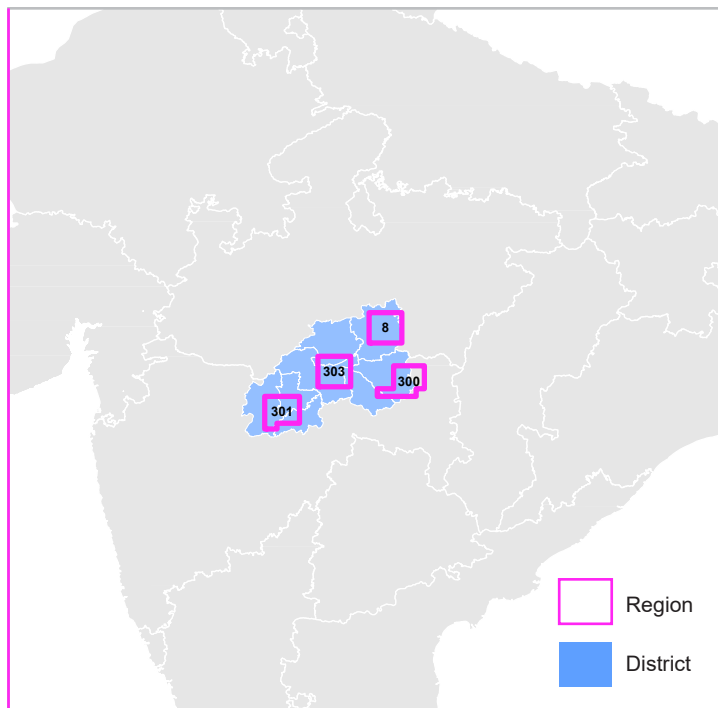
☐ Region
🟦 District

Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
Central Plateau and Hills (CPH)	Madhya Pradesh	R-8	Chhindwara	Jawahar Tur (JKM-189), ICPH 2671, PKV Tara (TAT-9629), Phule T 0012, TT 401, TJT 501, Maruti (ICP 8863)
Western Plateau and Hills (WPH)	Maharashtra	R-300	Nagpur	
		R-301	Buldhana, Akola, Washim	
	Maharashtra, Madhya Pradesh	R-303	Wardha, Amravati, Betul	

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	Jan	Feb
CPH	R-8			Kharif							
WPH	R-300, R-301, R-303			Kharif							

Note: **CPH** Central Plateau and Hills, **WPH** Western Plateau and Hills

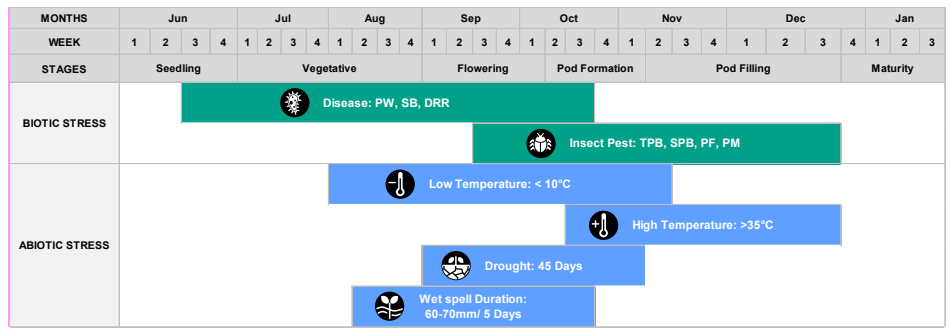🟦 Sowing 🟦 Mid season 🟦 Harvesting

Quality Specifications

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

	Arhar	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
No.	Tradable parameters	111	112	113	114	115
I	Moisture (% by wt)	01.00 - 09.00	09.01 - 09.50	09.51 - 10.00	10.01 - 12.00	12.01 - 14.00
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	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.

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Lot ID	LOT01AR04
HSN Code	07136000
Commodity	Arhar (Tur)
Variety	TT 401
Grade	Grade-I (Band-III)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	10.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	2.00 MT
Allowable Lot Variance (-)	1.00 MT
Rights per Lot (No.)	2
Current Lot Size	8.00 MT
Contract Price (Per Unit)	₹ 58,650
Fees	2.00%
Taxes	0.20%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 5,99,403
Logistic Hub Location	Sai Krupa Warehouse, Near Kusmaily Mandi,Post Sonakhar,Kabadiya, Chhindwara, Madhya Pradesh - 480001

Dynamic Crop Calendar (DCC)

It is a real-time tool that tracks and forecasts stresses and their severity by commodity, variety and phenophase. The DCC helps 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.

MONTHS	Jun				Jul				Aug				Sep				Oct				Nov				Dec				Jan		
WEEK	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
STAGES	Seedling				Vegetative								Flowering				Pod Formation				Pod Filling								Maturity		

BIOTIC STRESS — Disease: PW, SB, DRR; Insect Pest: TPB, SPB, PF, PM

ABIOTIC STRESS — Low Temperature: < 10°C; High Temperature: >35°C; Drought: 45 Days; Wet spell Duration: 60-70mm/ 5 Days

NOTE: **PW** Pigeonpea Wilt, **SB** Stem Blight, **DRR** Dry Root Rot, **TPB** Tur Pod Borer, **SPB** Spotted Pod Borer, **PF** Pod Fly, **PM** Plume Moth
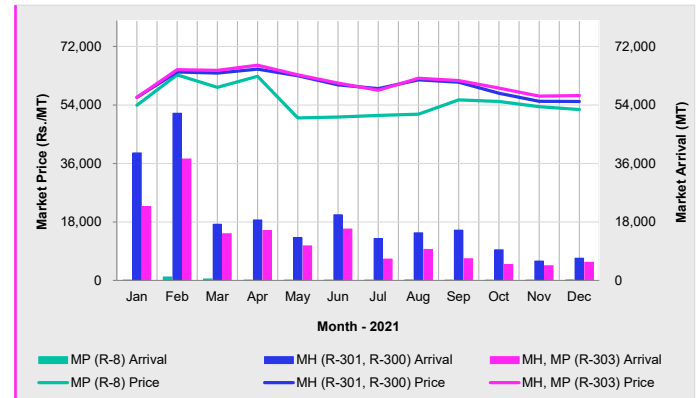
Yield at Risk (YaR) - Stability

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.
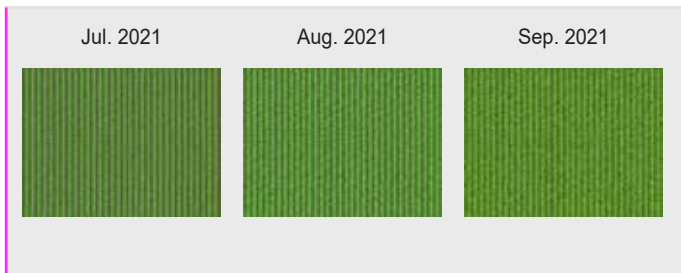

Legend: (-) YaR (MT); Quantity (MT/Ac); (+) YaR (MT)
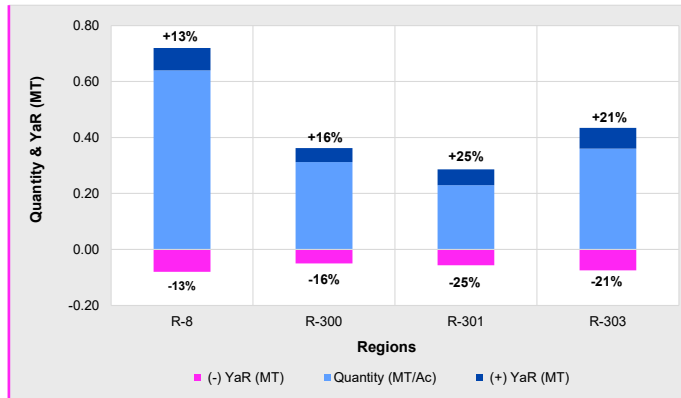
Price Volatility

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

Legend: MP (R-8) Arrival; MH (R-301, R-300) Arrival; MH, MP (R-303) Arrival; MP (R-8) Price; MH (R-301, R-300) Price; MH, MP (R-303) Price

Aerial Photo

Aerial photo provides the visual representation of a the field periodically.

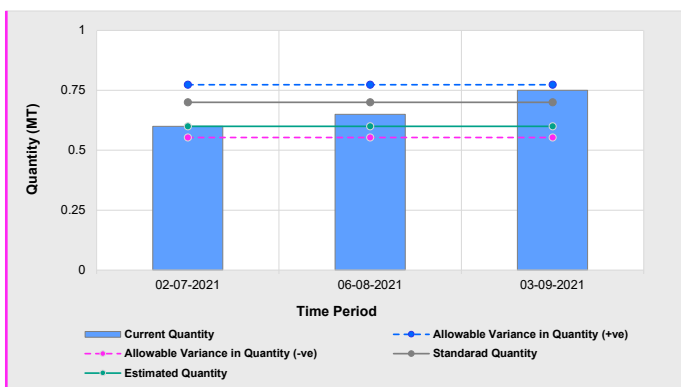Jul. 2021 Aug. 2021 Sep. 2021

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.

Jul. 2021 Aug. 2021 Sep. 2021

Legend: 80% Poor; 85% Normal; 90% Good; 95% Better; 100% Best
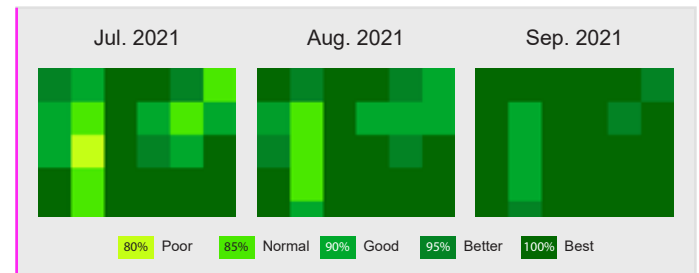
Ground-Truth Risk Report

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.

Legend: Current Quantity; Allowable Variance in Quantity (+ve); Allowable Variance in Quantity (-ve); Standarad Quantity; Estimated Quantity

Multispectral Analysis

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

Legend: Region NDVI; Field NDVI

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https://cropdata.in/agriota.html