

PMFBY Yield Prediction Report

AI-Based Crop Yield Assessment System

Claim ID: REAL_TEST_001

Farmer Name: Test Farmer - Karnal

Crop Type: RICE

Season: Kharif 2024

District: Karnal

Village: Taraori

Sowing Date: 2024-06-15

Report Date: 2025-12-08 14:47

Executive Summary

Predicted Yield:	3905.08 kg/ha
Threshold Yield:	3200 kg/ha
Loss Percentage:	0.0%
Claim Trigger:	X NO
Confidence Score:	70.0%

RECOMMENDATION: NO CLAIM
Loss of 0.0% is below the 33% threshold.

Farm Details

Area Insured:	2.5 hectares
Sum Insured:	■150,000.00
GPS Coordinates:	29.69°N, 76.97°E
Land Type:	Irrigated

Vegetation Analysis

Peak NDVI:	0.000
Mean NDVI:	0.192
NDVI AUC:	10.40
Season Length:	0 days
Peak Date:	2024-06-17T00:00:00

Crop Vigor Score: 35/100

Poor crop vigor indicating significant stress or damage.

Weather Analysis

Total Rainfall: 742.2 mm

Mean Temperature: 29.0°C
Heat Stress Days: 42
Dry Spell (max): 0 days
Growing Degree Days: 2661

Stress Assessment

Growth Stage	Stress Index	Days Affected
Vegetative	0.00	0
Tillering	0.00	0
Flowering	0.00	0
Grain Filling	0.00	0
Maturity	0.00	0

Analysis: No significant stress events detected during the crop season.

Yield Prediction

Predicted Yield: 3905.08 kg/ha
Lower Bound (10%): 3319.31 kg/ha
Upper Bound (90%): 4490.84 kg/ha
Confidence: 70.0%
Model Type: empirical

PMFBY Loss Calculation

Threshold Yield (TY): 3200.00 kg/ha
Predicted Yield: 3905.08 kg/ha
Shortfall: 0.00 kg/ha
Loss Percentage: 0.00%

Trigger Threshold: 33%

Recommendation

X NO CLAIM PAYABLE

Yield loss of 0.0% is below the 33% threshold.

Notes:

- Prediction based on satellite + weather data analysis
- Final decision subject to CCE ground truth verification

Authorized Signature