

# PMFBY Yield Prediction Report

## AI-Based Crop Yield Assessment System

**Claim ID:** OFFICIAL\_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 15:17

## Executive Summary

Predicted Yield:	3905.08 kg/ha
Threshold Yield:	2784.0 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
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**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

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

## PMFBY Loss Calculation

**Threshold Yield (TY):** 2784.00 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

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Authorized Signature