

# वसुंधरा लॅब

N4, Near Renuka Mata Temple, Nimbalk Road,  
Nagapur MIDC Ahmednagar 414111  
State Name : Maharashtra, Code:27

|                       |            |
|-----------------------|------------|
| Registration No       | .          |
| Sample Received On    | 15/06/2026 |
| Analysis Completed On | 19/06/2026 |

|                 |                                 |                |       |         |             |
|-----------------|---------------------------------|----------------|-------|---------|-------------|
| Name of Farmer: | Pramod Sonawane [ sample no 2 ] |                |       |         |             |
| Place:          | Shingave                        | Tal:           | Nagar | Dist:   | Ahilyanagar |
| Previous Crop:  | Pomegranate                     | Next Crop:     | ..    |         |             |
|                 |                                 | Survey/GAT No: | ..    | Mob No: | 9822246868  |

## माती परीक्षण अहवाल

| SRNO | PARAMETERS                                | UNIT   | METHOD USED                                      | LIMITS        | RATING                            | RESULT |
|------|-------------------------------------------|--------|--------------------------------------------------|---------------|-----------------------------------|--------|
| 1    | pH (सामू.)                                | .....  | 1:2.5 soil water suspension on pH meter          | <6.50         | Acidic (आम्ल)                     | 7.30   |
|      |                                           |        |                                                  | 6.50-7.50     | Normal (उदासीन)                   |        |
|      |                                           |        |                                                  | 7.50-8.10     | Slightly Alkaline                 |        |
|      |                                           |        |                                                  | 8.10-8.50     | Moderately Alkaline (अल्कधर्मी)   |        |
|      |                                           |        |                                                  | >8.50         | Strong Alkaline (जास्त अल्कधर्मी) |        |
| 2    | Electrical Conductivity (विद्युत वाहकता)  | dSm-1  | 1:2.5 soil water suspension on Conductivty meter | <0.50         | Normal (सर्वसाधारण)               | 0.30   |
|      |                                           |        |                                                  | 0.50-1.50     | Medium (थोडे जास्त)               |        |
|      |                                           |        |                                                  | >1.50         | High (जास्त)                      |        |
|      |                                           |        |                                                  | >3.00         | Very High (अत्यंत जास्त)          |        |
| 3    | Water Holding Capacity (पाणी धारक क्षमता) | %      | Filter Paper                                     | <25.00        | Low (कमी)                         | 60.00  |
|      |                                           |        |                                                  | 25.00-50.00   | Normal (पुरेसे)                   |        |
|      |                                           |        |                                                  | >50.00        | High (जास्त)                      |        |
| 4    | Calcium Carbonate (मुक्त चुना)            | %      | Rapid Titration                                  | 1.00-5.00     | Low (कमी)                         | 22.26  |
|      |                                           |        |                                                  | 5.00-10.00    | Normal (पुरेसे)                   |        |
|      |                                           |        |                                                  | 10.00-15.00   | High (जास्त)                      |        |
|      |                                           |        |                                                  | >15.00        | Very High (हानिकारक)              |        |
| 5    | Organic Carbon (सैद्रिय कर्ब)             | %      | Wet Oxidation                                    | <0.20         | Very Low (अत्यंत कमी)             | 0.63   |
|      |                                           |        |                                                  | 0.20-0.40     | Low (कमी)                         |        |
|      |                                           |        |                                                  | 0.41-0.80     | Normal (पुरेसे)                   |        |
|      |                                           |        |                                                  | 0.81-1.00     | High (जास्त)                      |        |
|      |                                           |        |                                                  | >1.00         | Very High (अत्यंत जास्त)          |        |
| 6    | Available Nitrogen (उपलब्ध नत्र)          | Kgha-1 | Alkaline KMnO4                                   | <141.00       | Very Low (अत्यंत कमी)             | 255.00 |
|      |                                           |        |                                                  | 141.00-280.00 | Low (कमी)                         |        |
|      |                                           |        |                                                  | 281.00-560.00 | Normal (मध्यम)                    |        |
|      |                                           |        |                                                  | 561.00-700.00 | High (जास्त)                      |        |
|      |                                           |        |                                                  | >700.00       | Very High (अत्यंत जास्त)          |        |

|    |                                           |           |                                                     |                 |                          |         |
|----|-------------------------------------------|-----------|-----------------------------------------------------|-----------------|--------------------------|---------|
| 7  | Available Phosphorus<br>(उपलब्ध स्फुरद)   | Kgha-1    | Olsens (NaHCO <sub>3</sub> extraction)              | <7.00           | Very Low (अत्यंत कमी)    |         |
|    |                                           |           |                                                     | 7.00-14.00      | Low (कमी)                |         |
|    |                                           |           |                                                     | 14.00-28.00     | Normal (मध्यम)           | 26.02   |
|    |                                           |           |                                                     | 28.00-35.00     | High (जास्त)             |         |
|    |                                           |           |                                                     | >35.00          | Very High (अत्यंत जास्त) |         |
| 8  | Available Potassium<br>(उपलब्ध पालाश)     | Kgha-1    | Flame Photometer                                    | <100.00         | Very Low (अत्यंत कमी)    |         |
|    |                                           |           |                                                     | 101.00-150.00   | Low (कमी)                |         |
|    |                                           |           |                                                     | 151.00-250.00   | Normal (मध्यम)           |         |
|    |                                           |           |                                                     | 251.00-300.00   | High (जास्त)             | 255.80  |
|    |                                           |           |                                                     | >300.00         | Very High (अत्यंत जास्त) |         |
| 9  | Exchange Calcium<br>(विनिमय कॅल्सिम)      | mg 100g-1 | EDTA Titration                                      | <500.00         | Low (कमी)                |         |
|    |                                           |           |                                                     | 500.00-1000.00  | Normal (मध्यम)           |         |
|    |                                           |           |                                                     | 1000.00-1800.00 | High (जास्त)             |         |
|    |                                           |           |                                                     | >1800.00        | Very High (अत्यंत जास्त) | 2725.00 |
| 10 | Exchange Magnesium<br>(विनिमय मॅग्नेशियम) | mg 100g-1 | EDTA Titration                                      | <250.00         | Low (कमी)                |         |
|    |                                           |           |                                                     | 251.00-500.00   | Normal (मध्यम)           | 328.00  |
|    |                                           |           |                                                     | 500.00-800.00   | High (जास्त)             |         |
|    |                                           |           |                                                     | >800.00         | Very High (अत्यंत जास्त) |         |
| 11 | Available Sulphur<br>(उपलब्ध गंधक)        | ppm       | Barium Chloride precipitation Spectrophotometer     | <10.00          | Low (कमी)                |         |
|    |                                           |           |                                                     | 10.00-50.00     | Normal (पुरेसे)          | 41.95   |
|    |                                           |           |                                                     | 50.00-70.00     | High (जास्त)             |         |
|    |                                           |           |                                                     | >70.00          | Very High (अत्यंत जास्त) |         |
| 12 | Sodium (सोडियम)                           | ppm       | Flame Photometer                                    | <400.00         | Normal (पुरेसे)          | 299.10  |
|    |                                           |           |                                                     | >400.00         | High (जास्त)             |         |
| 13 | Copper (तांबे)                            | ppm       | DTPA Extraction and (AAS)                           | <0.20           | Deficiency (कमतरता)      |         |
|    |                                           |           |                                                     | >0.20           | Sufficient (पुरेसे)      | 0.50    |
| 14 | Zinc (जस्त)                               | ppm       | DTPA Extraction and (AAS)                           | <0.60           | Deficiency (कमतरता)      | 0.50    |
|    |                                           |           |                                                     | >0.60           | Sufficient (पुरेसे)      |         |
| 15 | Iron (लोह)                                | ppm       | DTPA Extraction and (AAS)                           | <4.50           | Deficiency (कमतरता)      | 0.34    |
|    |                                           |           |                                                     | >4.50           | Sufficient (पुरेसे)      |         |
| 16 | Manganese (मॅंगनीज)                       | ppm       | DTPA Extraction and (AAS)                           | <2.00           | Deficiency (कमतरता)      | 0.68    |
|    |                                           |           |                                                     | >2.00           | Sufficient (पुरेसे)      |         |
| 17 | Boron (बोरॉन)                             | ppm       | Acid Extraction and Azomethine -H Spectrophotometer | <0.50           | Deficiency (कमतरता)      |         |
|    |                                           |           |                                                     | >0.50           | Sufficient (पुरेसे)      | 1.00    |