Several techniques were proposed previously by various authors for Nitrogen phosphorous potassium prediction from humidity, EC, pH and temperature. Many of them used some lab testing’s rather using relevant sensors. Our main goal is reduced time by using relevant sensors to get readings. few techniques previously used are explained below.

In July 2017 group of researchers Sabina Rahaman, Harshitha M, Anusha R, Bhargavi Y [1]R, Chandana M from Department of Electronics and Communication Engineering BMS Institute of Technology, Bangalore 560064 have invented a research which detect NPK Ratio Level Using SVM Algorithm and Smart Agro Sensor System They have integrated a sensing module with an Image processing setup to monitor the essential details needed for plant growth from the soil.

As inputs they have get Temperature/Humidity, Soil Moisture and pH level. Which means those things directly affect to the fertilizer level of the soil. Furthermore, Image Acquisition, enhancing the image using Grey scale analysis, Adaptive Histogram analysis and feature extraction Methods have used by the research team for better result

They have analyzed These feature values comparisons with database feature extraction and Mutism is used to classify into ratio level of NPK indicating which Nutrient is low. And also, they have successfully Given moisture level(dry/wet) of soil, humidity reading, and pH scale. [1]

Mr. Khakal V.S., Mr. Deshpande. N. M , Mr. Varpe P. B. Department of E &TC , PDVVP COE Ahmednagar have research Measurement of NPK from PH value and they have used NPK Microsensors other than ph and temperature sensor and mainly they have prepared a desktop application for view the results so in our system it will be more user friendly to using a smart application. [2]