## **NITROGEN PARAMETERS:**

## **WORLDWIDE LEAF COLOR CHART PRODUCER**

## **Benny Thomas**

"If you are working on something you really care and agreed that Mr. Benny could join with them for about, you don't have to be pushed. The vision pulls developing colors for LCC. you." It is this unwavering determination of Mr. Benny Thomas, the Founder and CEO of Nitrogen Dr. I Johnkutty was overwhelmed by Mr. Benny's Parameters, Chennai that has made LCC, a path enthusiasm as he could think only of purchasing over the world.

by International Rice Research Institute (IRRI) & PhilRice initially in the Philippines. Mr. Benny directed him to Dr. V. Balasubramanian, Principal agriculture through this undeterred young man various hues of the leaf indicating its nitrogen level.

breaking tool for nitrogen management in crops, all one LCC each at the seven subcenters under KAU and tried to convince him about the infeasibility of marketing and promoting the LCC. Mr. Benny Entrepreneurship is inherent in this stalwart born proved to be a breed apart by gifting the farmers to Mr. K. P. S Thomas and Mariyamma Thomas, across the world, a tool that could impact their Pottamkulam a reputed family at Kanjirapally, lives drastically. Mr. Benny introduced, produced Kottayam dist. Kerala, who are basically ardent and promoted this unique product which is very planters of tea, rubber etc. He started his career advantageous not only to farmers all over the world looking after his family-owned tea estate & factory. but also to planet earth. The practice among farmers He cultivated other different crops also. All through doing blanket application of Fertilizer Nitrogen this time, Mr. Benny was driven by a passion to do to make their farm look greener has been a major something really worthwhile, a quality which he mistake done by them as they were unaware of has inherited from his grandfather Chevalier K. V. the damages caused because of unwanted fertilizer Zachariah who was honoured with a Knighthood for application. The farmers generally use leaf color his countless contributions rendered to the society. as an indicator to decide amount and time of N fertilizer application to crops but are not aware of In 1999, he read a small article from a local newspaper the scientific basis of using leaf color as an indicator about Leaf Color Chart (LCC) technology developed of N fertilizer demand. The farmers already use leaf colour as visual indicator to decide fertilizer N application to crops but have set their eyes on dark Thomas was fascinated by this novel idea published green color shade as threshold. He realized that Leaf by Dr. I. Johnkutty, a scientist at Kerala Agricultural Color Chart is a very simple, inexpensive, handy and University. The saga of LCC begins with his attempt easy to use tool for farmers which will benefit them to contact Dr. Johnkutty who shared the information a lot by regulating the use of fertilizer N, thereby he had received from IRRI, Philippines and also augmenting the economic returns of farmers and productivity of crops. What makes LCC the best Developer and CREMNET Coordinator at IRRI. alternative for N management is its affordability to Thus, a very tiny piece of information that could have the millions of farmers for whom Green Seeker and been ignored lit a flame in his mind which could SPAD meter are just a mirage. It is also helpful to never be doused. He tried to communicate with Dr. improve nitrogen use efficiency of crops and help Balasubramanian via letters and email about the to save Government exchequer on Urea subsidy. product. After some time, he received a reply mail But to start up with a new product from zero level from Dr. Balasubramanian; IRRI was planning for was very much challenging. Mr. Benny had to start a research for developing Leaf Color Chart which everything from scratch. He conceived LCC in his could be used worldwide. Dr. Balasubramanian mind: long years were spent to give shape to an idea could see the breakthrough change in the field of given by IRRI; a colour chart that would indicate the His pursuit was relentless with repeated trials and experiments and huge investments were made by him to make it successful.

The International Rice Research Institute (IRRI) couldn't remain blindfolded to the dedication and perseverance of his efforts towards manufacturing the LCC, and issued a certificate to him in the year 2002.



## LEAF COLOUR CHART (LCC) FOOT PRINTS IN INDIA

FERTILIZER NITROGEN MANAGEMENT IN FIELD CROPS

MANUFACTURED AND SUPPLIED BY

NITROGEN PARAMETERS CHENNAI INDIA (Since 2002)





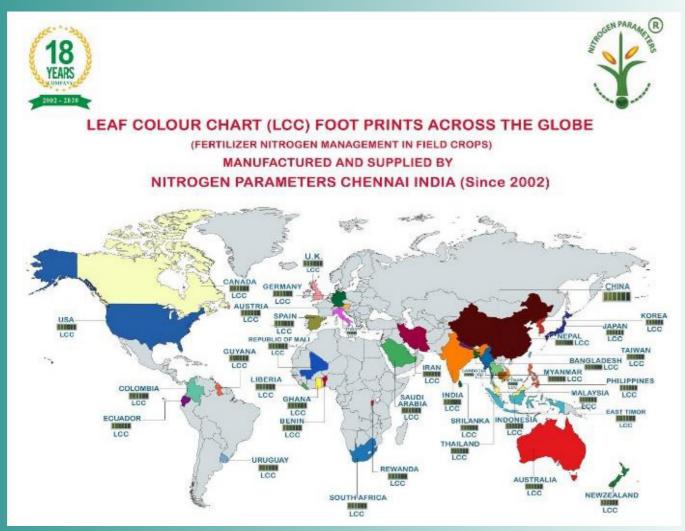
manufacturing LCC according to the specifications supplying Nitrogen Parameters IRRI LCC to of IRRI, the world's premier research organization, them. PAU implemented the prospect of Nitrogen in 2002.

different states.

government to explain about the product. In 2005, Punjab and other States. Tamilnadu Govt & TNAU showed their interest to the possibilities with various institutes.

Thus, Nitrogen Parameters started the process of with Punjab Agricultural University (PAU) by Parameters LCC in their research and extension After developing Leaf Color Chart, Mr. Benny activities which is mentioned in their research realized that the profound destiny of LCC could papers of the department of soil science, PAU. As per be attained if only its benefits are enjoyed by each PAU instructions, the company worked on a range of farmer. He personally approached the Agriculture colour combinations as a result of which, PAU-LCC Ministers, Policymakers, Commissioners / Directors by Nitrogen Parameters from IRRI LCC evolved of Agriculture, ICAR, Union Ministry of Agriculture, and later leaf colour charts in cereal crops like Rice, Govt. of India to include LCC in their schemes in Wheat, Maize and Cotton were developed. The company sponsored a project of PAU for developing a success story of using LCC in village Lalton Khurd, Initially he received orders from Rice Research Ludhiana to promote LCC technology. Farmers were Institute of Iran and IRRI Philippines. He approached found highly satisfied with the crop performances various state agriculture departments and central following LCC-based fertilizer N application in

purchase and supply LCC to their state farmers. Indian Institute of Rice Research (IIRR) one of the Gradually some of the states in India started Institutes of the Indian Council of Agricultural supplying it to their farmers. At this juncture, the Research (ICAR), India, approached Nitrogen idea of customising LCC to meet the region-specific Parameters for having Collaboration for developing requirements struck him and he started discussing a 5 Panel Customized IIRR LCC from Nitrogen Parameters IRRI LCC, especially for the irrigated He had already established a very long relationship ecosystem. This led to the development of a new



IIRR 5 Panel LCC.

Incollaboration with NRRI, a new 5 Panel Customized that proper training is given to extension officers LCC has been developed for N management in rice and farmers with the support of the department of for different ecologies on the basis of the spectral agriculture and the institutes so that real benefits are evaluation of leaves of hundreds of HYVs and local enjoyed by the farmers. cultivars grown in Eastern India under different crores annually.

Raichur.

Marketing of a new innovative product was very institutions in different states of India. crucial, keeping the product quality is also very important, especially about Leaf Color Chart which Words are too little to measure the size of Mr. is associated with many similar-looking complicated Benny's accomplishments but the profound impact green variety colours. It's been very keen on of LCC in the lives of farmers all over the world observing the quality by maintaining its exact and to planet earth definitely matches the efforts colours to different regions. Secrecy / confidentiality undertaken by this single man to accomplish his of manufacturing techniques have not been revealed God-given mission to the welfare of the world. He or disclosed to anyone. Moreover, the colour acknowledges the support of his parents, wife Ashly, accuracy is the specialty of the product; the PATENT and dedicated staff, in his pursuit. Right is applied by Nitrogen Parameters for the

LCC Manufacturing process. The company ensures

levels of N applications. Indian economic savings of Today Nitrogen Parameters is an International urea fertilizer by using leaf color chart (LCC) in rice, company with global reputation and an exclusive wheat, maize and BT cotton is approximately 18000 firm in the arena of the manufacturing and supplying the LCC (Leaf Colour Chart) to many National and International, government and non-governmental At present, there are ongoing researches and agencies, institutes, universities, etc. The company validations done state-wise for site specific LCC in supplies LCC to 45 countries across the Globe and collaboration with several other institutes in India, has become very successful as the sole supplier of namely, Tamilnadu Agricultural University (TNAU) LCC since 2002. Nitrogen Parameters is regularly and University of Agricultural Science (UAS), working for the promotion of LCC in different states of India. Large quantity of LCCs is supplied to the State Department of Agriculture and ICAR

