



# Bioved News Letter



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## Spirulina Cultivation at BRIAT

Bioved Research Institute of Agriculture & Technology (BRIAT) has standardized the process of Mass Culture of Spirulina at Bioved Krishi Prodyogiki Gram Moharab, Sringerpur, Allahabad. Spirulina is unique among blue green algae and identified as super, complete and balanced food. Spirulina belongs to the plant food group. Its blue-green colour comes from two pigments, phycocyanin and chlorophyll. These tiny spiral coils thrive in a high-alkaline medium and harvest the energy of the Sun to supply a treasure of bio-available nutrients beneficial to the human body.

Spirulina is often described as a super food, as it contains the most remarkable concentration of nutrients known in any food, plant, grain or herb. It is the highest protein food which contains over 60% of digestible vegetable protein. It also has the highest concentration of Beta-Carotene, Vitamin B12, Iron, Trace elements and the rare Essential Fatty Acid-GLA. These make Spirulina a great whole food and effective alternative to isolated Vitamins and Minerals.

In India 74-80% women of SC/ST and economically poor women are suffering from



different diseases due to anaemia, blood pressure, asthma, tumour, Cancer, gastic problems, body pains, irregular menstruation, heart and kidney problems. The reasons behind these problems are identified as unbalanced nutrients, bad quality of water and unavailability of sufficient oxygen.

It has been observed that 30 tablets (15g) of Spirulina contains Betacarotene (Pro-Vitamin.



A) – 12 mg; B1 and B2 0.24mg; B3 1.02mg; B6-43.2 µg; B12 – 7.2 µg and E- 0.72 mg. For obtaining these quantities of mentioned vitamins from other sources, there will be a requirement of 35 Bottles of cow's milk or 550 apples, 16 sardines, or 20 green chillis; 47 straw berries or 420 grapes; 8 lemons; 90 g of bread or 4 stalks of asparagus; 4 Eels or 240 g cheese and 5 pieces of chicken. Essential fatty acids, linolenic acid and gamma linolenic acid percentage of Spirulina are 44.6%, 21.7% and 22.9% as compared to mother's milk (16.7%, 15.1% and 1.6%) and cow's milk (1.3%; 1.3% and little), respectively.

The cultivation of natural balanced and complete super health food i.e. Spirulina is boon for improvement of better health of poor men, women and children and is also helpful for increasing income and employment of rural poor masses of society.

### **Meeting of ITC Team with Paddy Grower of Karchhana, Allahabad.**

Mr. Vachaspati Mishra, Programme Officer of ITC programme visited the extension office of Bioved Research Institute of Agriculture and Technology established at Rampur Karchhana on 01/10/2014 to 4/10/2014 alongwith all staff members working in ITC project. He also visited the villages Purvakhas, Keshavapur, Baraon, Amilo and Majuwa with field officer Ashish Upadhyay and met with CRP, Sri Ramesh Kumar Mishra and Sri. Uma Shanker Patel, respectively and discussed the current scenario of Kharif crop and future planning of Ravi, 2014-15. He highlighted the activities related to paddy cultivation like Seed treatment, KB problem and also availability of wheat seed variety Kedar, K-307 and PBW-550 in targeted areas for sowing of wheat crop by Zero till and seed come fertil drill.



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## **In-Plant Training Programme**

A two months In plant training programme of B.Sc. (Hons.) Agriculture students of SHIATS, Allahabad is scheduled to be organized at BRIAT from 15th January, 2015 to 14th March 2015. This programme has been fixed on the request of Chief Co-coordinator RAEDP Programme, SHIATS, Allahabad.

## **Invitation for attending Kishan Goshthi**

Dr. Arun Kumar Sharma, Director, National Bureau of Agriculturally Important Microorganisms (NBAIM-Kusmaur, Mau Nath Bhanjan.) invited Dr. B.K. Dwivedi, Director, BRIAT as a Guest of Honour in a Kishan Goshthi programme on 3/11/2014 in the auditorium of NBAIM Mau Nath Bhanjan, Aajamgarh, (U.P.)

## **NABARD Meeting at Allahabad**

A Meeting of Producer Organizations was organized by Mr. Rajeev Jaitly, AGM, NABARD in the auditorium of U.P. Bank employee civil line, Allahabad on 15/10/2014 at 10:00 AM. Dr. B.K. Dwivedi, Director, BRIAT, Allahabad participated in this meeting as a guest of honour and addressed the gathering about the importance of Producer Organization and its relevance in the present context. Regional Manager, Baroda, Uttar Pradesh Gramin Bank was the Chief Guest on this occasion. Different officers of different departments of Allahabad Division participated in this meeting and expressed their views about the prospects and problems of farmers in Lac culture or value added products and its marketing.

## **Celebration of Excellent Yuva Mandal Award, 2013**

Dr. B.K. Dwivedi, Director, BRIAT, Allahabad and Members of selection committee of excellent Yuva medal award participated in the meeting held on 20/10/2014 at 4:00 PM under the chairmanship of Mr. Atal Kumar Rai, CDO, Allahabad. Mr. Rajesh Mohan Shukla, Distt Youth Co-coordinator, Dr. Uma Kant Yadav, Programme coordinator, NSS university of Allahabad and Director Jan Shiksha Sansthan, Allahabad and Dr. B.K. Dwivedi actively participated in the selection of probable applicants.

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## Participation of BRIAT in Kishan Mela



A Kishan Mela was organized by the D.M. Allahabad in the campus of SHIATS (Deemed University, Allahabad) on 29/10/2014. BRIAT presented its value added products prepared by different Self Help Group/JLG in this Kishan Mela and recent developed advanced Technologies for managing crop production and protection through

published books, Journals, Bulletins demonstrated in the stall. Dr. B.K. Dwivedi, Director, BRIAT delivered invited talk on high-tech farming. About 5 to 6 hundred farmers viewed the demonstrated Technologies on Lac Culture, Pearl Culture, Spirulina Cultivation, Duck, Medicinal Plant, high-tech Nursery Farming etc on this occasion.



## Meeting for organizing Rastriya Ramayana Mela at Sringverpur Dham, Allahabad

A meeting was organized with the Committee of Rastriya Ramayana Mela on 30/10/2014 in the Auditorium of Bioved Krishi Prodyogiki Gram Sringverpur, Allahabad. All the Research Scientists, Technical staff, Supporting staff of BRIAT participated in this meeting. Dr. B.K. Dwivedi, Director, BRIAT, Allahabad discussed about the proper conduction and planning for organizing this Mela at Sringverpur Dham as well as at Bioved Krishi Prodyogiki Gram Sringverpur, Allahabad on 04/11/2014 and 05/11/2014.



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