



Bioved News Letter



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Fresh Water Pearl Culture Technology at BRIAT

Bioved Research Institute of Agriculture & Technology (BRIAT) has standardised the process of pearl-culture technology for the first time in U.P. Pearls popularly known as "Queen of Gems" occupy a unique place due to their discovery in ancient times. Pearls were considered as an exclusive privilege of royalty and as a symbol of wealthy and powerful personality. Living organisms i.e. species of Molluscs found in marine and freshwater ecosystem produce pearls. A natural pearl is formed when a foreign particle such as a piece of sand or parasite makes its way into particular species of mollusc, which cannot be expelled. As a defense mechanism, the animal secretes a substance, known as nacre, to coat the foreign body. Layer upon layer of this coating is deposited on the irritant, resulting in a shimmering and iridescent creation of a gem. The culture pearl undergo the same process of formation as that of natural pearl. Most of the farmers are doing fish farming only. They are not aware about the availability of mussels in their ponds. Two local genera of the mussels i.e. *Lamellidens* spp. & *Parraiyasia* spp. are found in the ponds of different localities of Allahabad. Among the 12 species of these genera, three most common species i.e. *L. marginalis*, *L. corrianus* and *P. corrugata* are found in and around Allahabad in huge quantity. BRIAT has also identified market linkages for the sale of designed fresh water pearls of larger scale. Demonstration after training of fresh water pearl culture technology at farmers' ponds is boon for upliftment of poor masses not only in U.P. but in other states also. It is very cheap, economically feasible, eco-friendly, socially acceptable and easily available for increasing income and self-employment and socio-economic development of poor masses. Pearl culture is being successfully demonstrated at the ponds of Bioved Krishi Prodyogiki Gram, Moharab, Sringverpur.



National Level Workshop of Producers Organizations at NABARD, Lucknow

A one-day National level workshop was held at NABARD, Lucknow, which was organised by NABARD on 3.9.2014. Shri. K.K. Gupta, CGM, NABARD, Lucknow initiated the meeting and briefed about the importance of Producers Organisation. All the members of Producer Organisations & Producer companies participated in different parts of U.P.. Mr. A.K. Mohanti, GM, NABARD, Lucknow, expressed his views on the difficulties faced by P.O. and he made necessary suggestions on the presentations of P.O.'S. Dr. B.K. Dwivedi, Director, Dr. S.D. Mishra Chairman, and Sri Sangam from BRIAT attended this meeting. Dr. B.K. Dwivedi gave a detailed talk on Lac cultivation and its value addition, which was appreciated by all the P.O.'S and officials of NABARD attending this Workshop. Dr. Dwivedi was selected as an important P.O. on Lac cultivation and its value addition for Allahabad. Sri Rajiv Jaitly AGM, NABARD, Allahabad also interacted with participants in this workshop.



Vichar Sangosthi of Swadeshi Jagaran Manch

A Vichar Sangosthi of Swadeshi Jagaran Manch was organized at the Auditorium of BRIAT, Allahabad on 8.9.2014 at 3 pm to discuss the activities and planning of Swadeshi Jagaran Manch, among the associated member, Allahabad. Sri Ajai Kumar Upadhyay Co-ordinator, Swadeshi Jagaran Manch Kashi Prant, Dr. B.K. Dwivedi, Director, BRIAT, Mr. Niranjana Singh, & Dr. V.K. Singh addressed the meeting and discussed about future activities to be performed on 27.9.2014 and 2.10.2014 at Allahabad.



Rashtriya Yuva Core Swayam Sewak Abhi Mukhi Prashikshan of Nehru Yuva Kendra

A one day meeting of 35 members of Rashtriya Yuva Core Swayam Sewak Abhi Mukhi Prashikshan already being organised by Nehru Yuva Kendra (NYK) was held in the auditorium of BRIAT, Allahabad on 16.9.2014. Shri. S.K. Mathur, Deputy Director, NYK; Shri Rajesh Mohan Shukla, District Yuva Coordinator, NYK; Dr. B.K. Dwivedi, Director, Dr. S.D. Mishra, Chairman, BRIAT & Shri Mahesh Dubey, NYK were the main dignitaries on this occasion. Dr. B.K. Dwivedi gave a detailed presentation about bio-resources and agri-waste materials value addition for the trainees. Other dignitaries also expressed their views for the benefits of the trainees. Training for self-employment and additional income generation was also organised on this occasion. All the trainees took much interest on Lac, Pearl, & Spirulina Cultivation and their value additions being done at BRIAT.



Madhya Pradesh Karigar Vigyan Congress 2014 at Madhya Pradesh Council of Science and Technology, Bhopal.

A two days Madhya Pradesh Karigar Vigyan Congress 2014 was organized by Madhya Pradesh Council of Science and Technology, Bhopal from 17 Sept.2014 to 18 Sept.2014 in council auditorium to disseminate recent advanced technology developed at national level by different expertise, scientists in the field of leather craft, natural fiber craft, natural colour, bamboo, soil, iron and lac based items. Mr. Jay Shankar Dwivedi, Executive Officer and Mr. Indra Kant Pandey training Co-coordinator, Bioved Lac Craft, BRIAT, Allahabad participated in this congress. Mr. Jay Shankar Dwivedi delivered an invited talk on lac value added products preparation technology with joint use of bioresource and agri-waste materials. Mr. Indra Kant Pandey demonstrated different lac value added products



prepared with joint use of lac and bioresource materials for wide adaptation among the participated Karigars of Madhya Pradesh.

Meeting of all Bankers with Sri B. Raghu Nath, DGM, NABARD, Regional Office, Lucknow at Kanha Shyam, Allahabad

A meeting with all bankers and NGO partners was organised on 18.9.2014, by Mr. Rajiv Jaitly, AGM, NABARD, Allahabad at Kanha Shyam Hotel, Allahabad under the Chairmanship of Sri B. Raghu Nath, DGM, NABARD, Lucknow to discuss the progress and problems of SHG's and JLG's members faced from different Bankers and its management. Dr. B.K. Dwivedi, Director, BRIAT Allahabad, attended this meeting as a representative of NGO partners participated from Allahabad, Kaushambi, Mirzapur, Sonbhadra and Chandauli and explained different problems faced by NGO's and their solution at grass root levels. All the DDM, of different districts presented progress of their district also.



ITC Meeting in Lucknow

A meeting of ITC was held at Lucknow on 20.9.2014 for the presentation of progress of running projects and future planning for next projects. Sri Jay Shanker Dwivedi, Sri Indra Kant Pandey & Sri Ashish Upadhyay from BRIAT, Allahabad attended this meeting, and major aspects of the project was discussed by ITC Officers. ITC, P.M. Sri Avinash Bisen discussed the major issues related to the project with coordination of BRIAT, Allahabad. P.O., Sri Vachaspati Mishra and ITC, Account Officer, Sri Deepak Prakash also participated in this meeting.

Training Programme on Fish Farming during 23-27 September 2014 at Bhimtal

Five days training programme was organised during 23-27 September 2014 at Bhimtal on Culture and Breeding of Mahseer by Directorate of Cold Water Fisheries, Bhimtal Uttaranchal. Mr. Ashok Manwani and Mr. Arvind Kumar of BRIAT participated in this programme and obtained technical training for Mahseer conservation in Tons river, Allahabad. Practical training about mahseer culture and breeding technology was obtained by the both technical persons of BRIAT, Allahabad.

Celebration of Birthday of Shri Dean Dayal Upadhyay

Birthday celebration of Late Shri. Dean Dayal Upadhyay, a famous leader of Jan Sangh and social worker was organized at BRIAT, Allahabad on 25.09.14. Dr. N.K.S. Gaur, Ex. Minister Higher Education, Govt. of U.P. was the Chief Guest on this occasion. Dr Rama Singh, Professor, Arya Kanya Degree College, Allahabad presided over this meeting. Dr. B.K. Dwivedi, Director, BRIAT Allahabad, Shri Dinesh Mani Ojha, Shri Mahesh Dubey, Shri Ram Awadh Kushawaha and 30 volunteers of Nehru Yuva Kendra along with all the staff members of BRIAT, Allahabad were present on this occasion. Dr. Gaur and other dignitaries appreciated the



views of Shri. Dean Dayal Upadhyay and promised to adopt the path shown by this great leader.

Bal Van Karyakram Organised

Bal Van Karyakram was organised on 29-30 September 2014 in the auditorium of BRIAT, Allahabad under the auspices of Sarvodaya Gramodyog Sewa Samiti (SGSS), Sultanpur & BRIAT, Allahabad under the project JICA, Forest Department, Allahabad. 60 teachers participated from different schools/colleges of Allahabad district. Dr. B.K. Dwivedi, Director, BRIAT, Allahabad highlighted in his Chief Guest address about the importance of plantation in the campus of school/colleges for forest, water conservation and employment generation through adoption of lac cultivation and its value addition. Shri Abhishek Mishra, ADMU (P&I), JICA, Allahabad said that plants are very helpful for purification & conservation of water and also maintain ground water levels in its areas. Plants are very helpful for production of oxygen and emission of carbon dioxide from the atmosphere. Dr. S.D. Mishra, Chairman, BRIAT,



focussed in his presidential address that every person releases 4 ton carbon dioxide, therefore, it is prime duty of each & every human being to transplant at least 4 plants positively. Dr. Mohd Arif, Former Principal Scientist, DRDO, Min. of Defence, GoI said that each plant provides 1703 kg oxygen per year and a human being consumes 15 kg oxygen / day, therefore, we should transplant more & more trees for the survival of human beings in better way. Mr. Jai Prakash Singh, President, (SGSS), Sanjay Kumar Prajapati, Project co-ordinator, and Ms. Rekha Pal explained about the activities being done under Bal Van Karyakram, in different blocks of Allahabad. Research Scientists & Technical Staffs of BRIAT also participated in this programme and demonstrated different activities, and developed value added products among the participants.

Meeting of ITC Project

ITC, P.O. Sri Vachaspati Mishra visited BRIAT, Allahabad on 30.09.14 regarding WDP- MSK project. Dr. B.K. Dwivedi, Director BRIAT Allahabad conducted the meeting with all ITC project staff members working under this project. He discussed about the technical programme of Rabi crops 2014-15 and also discussed about the current status of Kharif crops of Karchhana Block, which has been sown by 604 farmers in 788 Acre lands under ITC project under technical guidance and supervision of Dr. B.K. Dwivedi, Director, BRIAT, Allahabad.



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