

Indo-German Workshop

On

**“Organic Mineral Fertilizer Pellets for
Sustainable Agriculture”**

November 7th, 2017 (Tuesday)

JOINTLY ORGNIZED BY



Faculty of Science –Department of Agriculture

JAGAN NATH UNIVERSITY, BAHADURGADH

&

JAGAN NATH UNIVERSITY, JAIPUR
(INDIA)

AT

BAHADURGADH CAMPUS

ABOUT THE UNIVERSITY

Jagan Nath University, NCR, Haryana has been promoted by Jagan Nath Gupta Memorial Education Society, established under Haryana State Legislature Act No. 8 of 2013, and approved under Section 22 of the UGC Act, 1956. It started its operations with effect from academic session 2013-14 on its own 25 acres campus, located at State Highway 22 (Bahadurgarh-Jhajjar Road). The University has launched UG and PG programs in the Faculties of Engineering and Technology, Computer Science & Technology, Architecture, Management, Commerce, Law, Physiotherapy, Physical Sciences, Social Sciences and Education. **From academic session 2017-2018, the University has also started B.Sc. (Agri., Hons) four year degree programme in Agriculture and Food Sciences.** The University aims to impart high quality education and promote employability among youth. To achieve this aim, the University has developed a reasonably good physical and academic infrastructure, recruited qualified and experienced faculty, state-of- the-art classrooms, laboratories and other facilities. To ensure adequate practical exposure to learners, among other things, the programs are being implemented with an adequate component of industry exposure.

ABOUT FACULTY OF AGRICULTURE

The Faculty of Agriculture at JNU started in the academic year 2017-18. The faculty of Agriculture offers four year B.Sc. (Agri., Hons) degree course. The teachers and farm manager of the agriculture faculty are both experienced and young capable of imparting quality education. The main objectives of the program are to groom students to acquire profound and exhaustive theoretical and practical knowledge about practical crop production and allied agri-enterprises to be able to establish agri-entrepreneurship and/or to pursue



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higher education for teaching/research career. The extensive program provides scope for learning and development through engagement in formal class room education, project work in the agriculture farm (14 acres), class room seminars, workshops etc. The faculty of agriculture has established agri-research farm for practical crop production training to the under-graduate students and research projects for the faculty.

ABOUT THE WORKSHOP

India attained tremendous progress in agriculture and recorded multi-fold increase in production of food grains since independence particularly with advent of Green Revolution Era in 1970s onwards. This increase happened due to use of high yielding varieties under high input conditions. The excessive use of irrigation and agro-chemicals led to grey patches in terms of secondary salinization, mining of soil for nutrients resulting into lower fertility and other biotic and abiotic stresses.

This calls for restoration of soil health through increased organic matter and nutrients. Heterogeneous distribution of livestock densities and biogas plants across Germany and India leads to partially high nutrient surpluses from organic manure. Particularly, in Haryana, Punjab, Rajasthan the huge cattle population leads to adequate amount of dung which is available for Biogas Plants. The resulting Biogas slurry is difficult to transport and use in its present form. To improve the transportability of organic manure into regions with lower quantities, a novel pellet fertilizer has been developed within the W-Bast project. Based on 50% organic sources (farmyard manure, biogas digestate) complemented by mineral nitrogen from urea, an organo-mineral fertilizer was designed. The prototype showed a total nitrogen content of >20%. The chemical performance of the novel pellet fertilizer was tested in soil incubation trials against conventional urea on three different soil types. Since nitrogen release rates were not significantly different from mineral urea, the novel fertilizer type could be a contributor to sustainable intensification in regions with low concentrations of organic manure due to the additional advantage of soil organic matter improvements. In India organic mineral fertilizers pellets like what has been achieved in Germany is utmost important for integrated nutrient management. This Indo-German workshop is intended to provide students and faculty to learn about such organic mineral fertilizers and to explore the possibilities of Indo- German Cooperation in the field of agriculture education and research and development. The dimensions of workshop will encompass over agriculture, engineering, management, commerce, environment legal aspects etc.

ORGANIZING COMMITTEE

Patron : Sh. Manish Gupta, Chancellor

Workshop Chair : Prof. H.L. Verma, Vice-chancellor

Workshop Advisor : Prof. P.N. Kalla

: Prof. R.K. Behl

Workshop conveners:

Faculty: Convener : Dr. Pritish Jakhar, Dr. S.L. Sharma

Co-conveners : Dr. Jagdeep Singh, Er. Rinku Dhankhar, Dr. Ritu Sharma, Dr. Rajkumar,

Students: Stewards : Mr. Vijay, Ms. Yashashvi, Ms. Nisha, Ms. Uma Jangra, Mr. Krishan Pandey

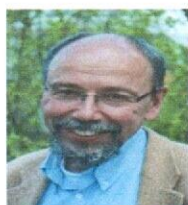
Farm Demonstration : Mr. Ghanshyam Vyas, Er. Sachin Kumar, Mr. Ashok Kumar

Venue : Conference Hall, JNU

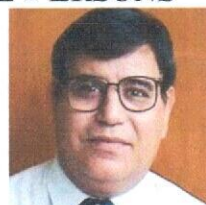
Time : 3:00 PM

Date : 7th November, 2017

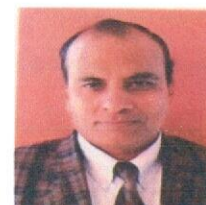
RESOURCE PERSONS



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