### Objectives
- To sensitize and orient the participants in understanding the present status and future perspectives of next generation fertilizers
- To enable the participants to acquire the knowledge on the latest techniques/strategies for enriching nutrient use efficiency in field crops through efficient fertilizer use

### Course Content
- Next Generation fertilizers—Introduction and Future Perspectives in Indian Context
- Liquid fertilizers vis-à-vis solid fertilizers for higher fertilizer use efficiency
- Micronutrient enrichment of staple food grains through ferti/biofortification
- Towards increasing nutrient use efficiency with fortified and coated fertilizers (and priming)
- Role of heavy metals towards nutrient use efficiency in cereals and pulses
- Nano-fertilizers: Approaches and scaling nutrient use efficiency
- Multi-nutrient supplements or Combi products for boosting crop growth and nutrient concentration
- 4R nutrient stewardship in pulses and oilseeds

### Eligibility
The candidates must possess at least Master’s Degree in related branch of Agriculture & allied sciences. Participant should be working in a position not below the rank of Scientist/ Assistant Professor or equivalent and above from ICAR institutes/ State Agril. University/CAU/Agricultural faculty of other universities recognized by ICAR.

### Duration of course:
10 days: 21-30 November, 2017

### Venue
**ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh, INDIA-208 024**

### Number of participants: 25

### Important dates
- Last date for nomination: 30 October, 2017
- Information on selection: 07 November, 2017

### Travel
Participants will be paid for the journey, to and fro, restricted to the maximum of AC II-tier train fare or bus or any other means of transport in vogue, as the case may be, as per the norms & guidelines of Education Division, ICAR, New Delhi.

### Boarding and lodging
Participants will be provided free boarding and lodging by IIPR, Kanpur in the Guest House, as per ICAR guidelines of winter/summer schools and short courses. Participants are requested not to bring their family/accompanying person with them.

### How to Apply
Eligible and interested candidates may apply online in prescribed proforma as per the steps given:
1. Visit the website http://www.iasri.res.in/cbp/ or Click on 'Capacity Building Program' link at http://www.icar.org.in
2. Login using your User Id and Password. To create User Id use "Create New Account" link
3. After login, click on "Participate in Training" link and fill the Proforma.

Take a printout and upload/send nomination duly forwarded by the competent authority in the prescribed format to Dr Ummed Singh, Course Director, ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh-208 024 along with Demand Draft of ₹50/ as registration fee (non-refundable) in favour of ‘ICAR Unit-IIIPR Kanpur’ and payable at State bank of India, Kalyanpur, Kanpur (Branch code: 1962).

### Location of IIPR, Kanpur
ICAR-Indian Institute of Pulses Research (Dalhan Sansthan), Kalyanpur, Kanpur is located 12 km away from Kanpur Central railway station and about 10 km from Jhakarkatti Bus Stand, Kanpur on the GT Road. It is well connected by rail/route to the rest of the country. Kanpur is situated on the bank of the Ganges River and is known as Manchester of the East. The climate of Kanpur is slightly pleasant with mild cool during the month of November. Need to bring warm clothes. During November, temperature ranges from 13-29.4°C with meager rainfall (5.1 mm).
APPLICATION FORM FOR PARTICIPATION IN SHORT COURSE

On “Enhancing Nutrient Use Efficiency through Next Generation Fertilizers in Field Crops” at ICAR-Indian Institute of Pulses Research, Kanpur -208 024 (Uttar Pradesh).

1. Full name (in capital letters)--------------------------------
2. Designation-----------------------------------------------
3. Present employer and address---------------------------------
4. Address to which reply should be sent (in capital letters) (Give telegraphic address also if available), Phone numbers, e-mail etc-----------------------------------------------
5. Date of Birth-----------------------------------------------
6. Sex (Male /Female)----------------------------------------
7. Teaching/ research/ professional experience (mention post held during last 5 years and number of publications)-----------------------------------------------
8. Marital status. (Married/Unmarried)----------------------
9. Mention if you have participated in any training during the previous years under ICAR/Other organization.---------------

10. DD No. -----------------------Date ------------ for INR50/- payable to ICAR Unit-IIPR Kanpur (Not refundable) for registration of application.

11. Academic record:

<table>
<thead>
<tr>
<th>Examination passed</th>
<th>Subjects (main/ subsidiary)</th>
<th>Year of passing</th>
<th>Class ranks, distinction, CGPA/ %</th>
<th>University/ Institution</th>
<th>Other information</th>
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</thead>
<tbody>
<tr>
<td>Graduation</td>
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<tr>
<td>Post graduation</td>
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<td>Ph. D.</td>
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<td>Others</td>
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</tbody>
</table>

Place ________________ Date ________________ Signature of the applicant.

12. Recommendations of forwarding authority. The application of Mr. / Ms/ Dr. ____________________________ is hereby recommended and forwarded for attending Short Course On “Enhancing Nutrient Use Efficiency through Next Generation Fertilizers in Field Crops”, to be organized by ICAR-Indian Institute of Pulses Research, Kanpur-208 024 (Uttar Pradesh) during 21-30 November, 2017. It is certified that the information furnished by the candidate has been verified and found correct.

Signature __________________ Designation __________________ Address __________________

N.B.: If more copies are required copies may be made locally for use of applicants.

Correspondence

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Ummed.Singh@icar.gov.in

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Short Course

On Enhancing Nutrient Use Efficiency through Next Generation Fertilizers in Field Crops

21-30 November, 2017

Sponsoring authority
Indian Council of Agricultural Research

ICAR-Indian Institute of Pulses Research,
Kanpur-208 024 (Uttar Pradesh)
Web site : http://www.iipr.res.in