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अनुसंधान निदेशालय

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No. : 444 /DR
Date: 11/8/2018

Concerned Crop Coordinators /Principal Investigators of AICRP

Sub: Submission of Research Highlights for compilation in Agenda note

You are requested to submit the Research Highlights of AICRP Research Projects in the following proforma for compilation in Agenda note of **5th Research Council Meeting, Rabi- 2018 on or before 20th September, 2018** in hard and soft copy.

Guidelines for submission of research highlights to be included in agenda notes are enclosed herewith for your convenience and uniformity in compilation of agenda notes.

M. Kumar
(Mithilesh Kumar) 11/8/18

CC: Officer Incharge, ARIS Cell for display on University website and Notice Board.
CC: Secretary to V.C. for kind information to the Hon'ble Vice-Chancellor.

Proforma

Name of the Experiment: Long Term Effect of Organic Manure, Crop Residues & Inorganic Fertilizer on Grain Yield of Rice (58th Crop).

Name of the Scientist(s): Dr. Mukesh Kumar, Dr. Shankar Jha and Dr. S. N. Suman

Date of start: Rabi 1988 -89

No. of years conducted: 28 years

Brief Research Highlights: Grain and straw yield of rice (58th crop) increased significantly with increasing levels of fertilizers up to 150% NPK. The relative performance of organic manure and crop residues on the yield of Rice varied in the order: Compost + crop residues > compost > crop residues > no compost or no crop residues. The result indicates that crop residues could substitute compost @ 10 t/ha. The compost, crop residues and compost + crop residues increased the grain yield of rice 27.10, 24.80 and 34.31%, respectively and that of straw yield 18.93, 17.61 and 25.06%, respectively.

Plan of work for the ensuing season: To be continued.

- ❖ **Recommendations based on concluded trials:** The results suggest that compost + crop residues could save 50 % recommended dose of NPK *i.e.* 60 kg N, 30 kg P₂O₅ and 20 kg K₂O/ha.