

DRPCA Pusa, (Samastipur)  
DATE: 06/04/22  
DIARY NO: 15 ARIS Cell (H&S)  
PIN CODE: 848125

Vijay  
06/4/22



**Directorate of Research**  
**Rajendra Prasad Central Agricultural University, Bihar,**  
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अनुसंधान निदेशालय  
राजेन्द्र प्रसाद केन्द्रीय कृषि विश्वविद्यालय, बिहार, पूसा-८४८१२५(समस्तीपुर)

**Dr. N.K.Singh**  
Director Research  
डॉ० एन० के० सिंह  
निदेशक अनुसंधान

No. : 13. /DR

Date: 06/04/2022

**All Principal Investigators of AICRP**

**Sub: Submission of Research Highlights for compilation in Agenda note**

You are requested to submit the Research Highlights of AICRP/University Funded Research Projects/Other Projects in the following proforma for compilation in Agenda note of **12<sup>th</sup> Research Council Meeting, Kharif-2022** on or before **12.04.2022 positively** in hard and soft copy only. Research highlight in **PDF file** or in **Tabular Form** will not be accepted.

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

N.K.Singh  
6/4/22  
(N.K.Singh)

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 Project: AICRP on STCR\***

**Name of the Experiment: Long Term Effect of Organic Manure, Crop Residues & Inorganic Fertilizer on Grain Yield of Rice (58<sup>th</sup> 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 (58<sup>th</sup> 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 P<sub>2</sub>O<sub>5</sub> and 20 kg K<sub>2</sub>O/ha.

\* Only these words should be in bold letters.