



अनुसंधान निदेशालय
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डॉ० पी० एस० ब्रह्मानन्द
निदेशक अनुसंधान
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Director Research

No. 658 /DR

Date 15-09-2022

Principal Investigators of University Funded Research Projects/Other Projects

Sub: Submission of Research Highlights for compilation in Agenda note

You are requested to kindly be prepared to submit the Research Highlights of University Funded Research Projects in the following proforma for compilation in Agenda note of **13th Research Council Meeting, Rabi-2022 on or before 22.09.2022 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 to be included in agenda notes are enclosed herewith for your convenience and uniformity in compilation of agenda notes.

(P. S. Brahmanand)

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

University Funded Research Project/Externally Funded Research Project

Name of the Project/ Experiment: Selection and promotion of *Trichoderma* for crop health Under sustainable agriculture.

Name of the Scientist: Dr. Dinesh Rai Co-PI : Dr. P. K. Jha

Fund sanctioned : 6.00 lakhs

Year of Start : 2017 No. of Years conducted: On going

Brief Research Highlights: Sixty two samples were collected from rhizospheric soils of different crops at different locations of Muzaffarpur and Samastipur districts. Soil samples were serially diluted and transferred on *Trichoderma* Selective Medium. Out of 49 *Trichoderma* isolates, 20 isolates were selected for further studies on the basis of colony growth, sporulation, morphological characteristics and antagonistic potential. All the isolates grew rapidly on PDA and showed different characteristics on conidial masses. Initially mycelial growth was creamy white, uniform, fluffy which latter appeared in sector (2 no.) and turned dark green in colour. Most of the isolates conidiophores were much branched and form loose tuft, the main branches were mostly in groups of 2-3 and stand at 90° angle. Conidia were small, subglobose, smooth walled, pale green in colour.

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

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