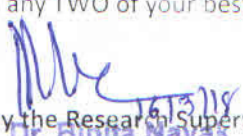


DATA SHEET FOR RESEARCH SCHOLARS



1. Name of the Scholar: PREETI ACHARYA
2. Gender: FEMALE
3. Department: SCHOOL OF LIFESCIENCE
4. Designation: JRF SRF Any other
5. Permanent Address: AT: SUBHADRA NAGAR, BIDANASI, CUTTACK, ODISA - 753014
6. Address for Communication: SCHOOL OF LIFESCIENCE, SAMBALPUR UNIVERSITY, JYOTIVIHAR, BURLA, ODISHA
7. Email ID: Preeti.acharya33@gmail.com (Official) _____ (Personal)
8. Contact Number: (M) 8093774114
9. Funding Agency: DST - ODISHA
10. Date of commencement of Fellowship: 1-08-2016
11. Period of Fellowship: 3 Year
12. Title of the Research Work: ~~their use as Biofertilizer & pest management~~: an ecofriendly approach.
 Combinational use of Neem extract & cyanobacteria for
13. Name of the Guide/Co-Guide: *Dr. Binata Nayak*
14. Registration Number: _____
15. A Brief Abstract of your Research Work (Within 200 words):
16. Status of Research Work:
 - (a) Writing the synopsis
 - (b) Review of Literature
 - (c) Data Collection
 - (d) Data Analysis
 - (e) Writing the draft thesis
17. Do you have your profile in the following research networks?
 - (a) Google Scholar
 - (b) ResearchGate
 - (c) Academia
18. Do you access the following e-resources subscribed by the university
 - (a) E-Sodh Sindhu from INFLIBNET
 - (b) ProQuest
19. Number of Papers published in referred journals with ISSN: Two, IJEAB - ISSN no - 2456-1878
IJCRT - 2320-2882
20. Mention any TWO of your best publications in APA standard:

Countersigned by the Research Supervisor

 Dr. Binata Nayak
 Principal Investigator
 DST (O) Project
 School of Life Science

Signature of the Research Scholar

Preeti Acharya

3

ABSTRACT:

An eco-sustainable revolutionary approach is in a demand to meet the gap between population explosion and food demand. A combinational use of bio-pesticide (Neem extract) and nitrogen fertilizer has been taken care of to decrease the crop loss due to pest along with maintenance of natural fertility of soil. Cyanobacteria have proven potentiality as the source of food, organic fertilizer, fuel, medicine but due to unconventional agricultural practices like continual use of pesticide and chemical fertilizer reduce its growth rate. At the same time, the natural pesticide like neem based product play a vital role in pest management. The objective is to find out the standard solution in present problem to maintain proper nutrient balance of soil, by combining neem extract and neem tolerant cyanobacteria as Biofertilizer and Biopesticide. Carry out the outdoor application of neem and cyanobacterial inoculum to the potted rice plant soil to study the agronomic potential of rice plant in order of panicle length, grain yield and number.

Preeti Acharya