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9. Funding Agency: UGC
10. Date of commencement of Fellowship: 20.03.2014
11. Period of Fellowship: 5 years
12. Title of the Research Work: Diversity of earthworms around...
13. Name of the Guide/Co-Guide: Dr. Alka Rathore
14. Registration Number: 01/2016/Life Sci.
15. A Brief Abstract of your Research Work (Within 200 words): Attached
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: 1

20. Mention any TWO of your best publications in APA standard:

Asif Kumar Behera  
Signature of the Research Scholar

Countersigned by the Research Supervisor

## Diversity of Earthworms around the industrial areas of Paradeep Phosphate Limited (PPL), Paradeep, Odisha

### Abstract :

Phenomenal and lucrative nature and extraordinary capability to accommodate various organisms makes soil one of the diversified ecosystems. True and never ending potentials of soil offers a great source to begin any forms of life. Any external disturbing factors which are considered muddling with the natural integrity of soil are formidable towards the organisms which inhabit in soil. From last two to three decades significant soil contamination due to heavy metals is going to overpower the sustainability capacity of soil dwelling organisms in particular earthworms. Phosphogypsum (PG) as a by-product produced from PPL fertilizer plants and believed to hold heavy metals such as, Cd, Cr, Hg, Pb, Zn, Cu, As etc. The study aimed to assess the genuine impact of Phosphogypsum on macrofaunas in particular earthworms on surrounding areas of PPL.

**Keywords :** *Earthworms, Phosphogypsum, Diversity, Heavy metals, Contamination*

*Asif Kumar Behera*