## DATA SHEET FOR RESEARCH SCHOLARS

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9. Funding Agency: DST/INSPIRE FELLOWSHIP
10. Date of commencement of Fellowship: 15/12/2016
11. Period of Fellowship: 5 Years
12. Title of the Research Work: "GEOLOGICAL AND GEOCHEMICAL STUDY OF THE PRECAMBRIAN TERRAIN AROUND DHAMA, NORTHWEST ODISHA, INDIA"
13. Name of the Guide/Co-Guide: Dr. Duryadhan Behera
14. Registration Number: 219/2016/Earth Sc.
15. A Brief Abstract of your Research Work (Within 200 words): Precambrian rocks occupy large parts of western Odisha. Study of this region is therefore very important to understand the evolutionary history. The study area comes under Maneswar Tehsil of Sambalpur district in the north western part of Odisha. The proposed study area is bounded between longitudes $83^0\,45'$ and $84^0\,00'$ and latitudes $21^0\,05'$ and $21^0\,20'$ which features in SI toposheet numbers 64 O/15 and 64 O/16. Preliminary study reveals that the rocks of Dhama area belong to two crustal blocks, namely, Bastar Craton (BC) and Eastern Ghats Granulite Belt (EGGB) which come in direct contact with each other along a lineament. Bastar Craton comprises mostly of granitic rocks covered by a younger platformal cover sequence referred to as Chhattisgarh Supergroup. A variety of granitic rocks, viz. medium grained grey granite, dark grey porphyritic granite, medium to fine grained pink granite have been noted in BC. Reconnaissance survey has revealed that Larasara area is considered by many geoscientists to be a part of EGGB, which comprises a variety of metasedimentary rocks intimately associated

with igneous rocks. These rocks have undergone polyphase deformation and high grade (granulite facies) metamorphism. These rocks have a tectonic contact with the rocks of BC. In order to understand the nature and timing of collision of EGGB with the BC, it is necessary to map the area around the contact zone in detail and establish the chronology of deformational and metamorphic events. The geology of Dhama area is complex and interesting one. But this area has not been studied in detail. The present study on Dhama area will help to understand the lithological composition of the constituent units in a better way. The study will also help in establishing the tectonic and stratigraphic setting of the area. It will be also helpful in understanding the Precambrian geodynamic development of the contact zone of Baster Craton and Eastern Ghats Granulite Belt (EGGB), establish the relationship between the cratons.

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

Sreepriya Prayeelakshmee Naik

**Signature of the Research Scholar**

D Behera

**Countersigned by the Research Supervisor**