

## DATA SHEET FOR RESEARCH SCHOLARS



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9. Funding Agency: No
10. Date of commencement of Fellowship: No
11. Period of Fellowship: No
12. Title of the Research Work: Use of Geospatial technology in Natural Resources and Assets Mapping of Huzurabad constituency, Telengana State.
13. Name of the Guide: Dr. Jagadish Kumar Tripathy
14. Registration Number: 004/2017/Earth Sc
15. A Brief Abstract of your Research Work (Within 200 words):
16. The Geospatial technologies have become a part of life especially in finding out the spatial locations, location based emergency services, planning, implementation, decision making, monitoring and evaluation studies. Geospatial technology has shown its impact locally along the length and breadth of the Indian e & G-governance starting from rural development to smart cities. The different sectors like Agriculture, IMD, Town and Country Planning and many more have been GIS dependent for a long time. The availability of cheap smart phones and improved GPS satellite constellations contributed significantly to the technology. There is lots of non-spatial data available in different government organizations in different format, but the same is not attempted to study and analyzed scientifically for the sake of different beneficiaries especially the communities. There is a need to convert the non-spatial data and to bring it to the spatial format. Additionally the spatial locations of different assets like Civic amenities, Governance, Human resources, Natural resources and Productive assests etc needs to be collected. These data can be integrated with natural

resources and used for improving decision making and life style. An attempt is made to study the natural resources inventory as well as assets mapping of Huzurabad Assembly constituency area (Part of Karimnagar & Warangal districts of Telangana state) using geospatial technologies. The study area covers 94 grampanchayats that are included in 4 mandals and comprising a total population of 3.06 lakhs and 79,800 no's., of households out of which there are about 23% of SC, 1% ST, 64% BC and 14% OC households. The assets mapping will be carried out using Bhuvan mobile app developed by NRSC/ ISRO. The data will be analyzed Gram-Panchayat wise to find the gap areas and also to improve the decision making. The natural resources inventory will be carried out by utilizing the high resolution satellite imageries for different thematic layers like Geology, Geomorphology, Hydrogeomorphology, surface water resources, Soils, Land degradation, Land use / land Cover etc. In conclusion GIS application is a useful tool especially in formulating, facilitating policy related issues for Panchayati Raj Institutions for preparing developmental plans by capacity building, to ensure transparency and authenticity, to avoid duplication in sanction of projects as well as to monitor the developmental activities.

17. Status of Research Work:

- (a) Writing the synopsis ☐
- (b) Review of Literature ☐
- (c) Data Collection ☐
- (d) Data Analysis ☒
- (e) Writing the draft thesis ☐

18. Do you have your profile in the following research networks?

- (a) Google Scholar
- (b) ResearchGate ☒
- (c) Academia

19. Do you access the following e-resources subscribed by the university

- (a) E-Sodh Sindhu from INFLIBNET ☐
- (b) ProQuest ☒

20. Number of Papers published in referred journals with ISSN:

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

*Jagadeesh Kumar T*

Countersigned by the Research Supervisor

Signature of the Research Scholar