 



ICES 2024

|  |
| --- |
| TITLE OF PROJECT:  GEOGRID: A BOON |
|  |
| NAME OF ALL AUTHORS: Pradnya Agale |
|  |
| NAME OF YOUR MENTOR: Dr. Shailendra Banne |
|  |
| NAME OF YOUR COLLEGE: Pimpri – Chinchwad College of Engineering, Pune. |
|  |
| ABSTRACT (150-300 words):  \*Refer Website for Guidelines\*  The ever-evolving landscape of road infrastructure, the challenge of poorly maintained roads necessitate innovative and sustainable solutions. This research focuses on the transformative potential of geogrid materials, particularly in the form of Geogrid Bricks, aiming to address issues such as puddle formation and potholes while ensuring economic viability.  The research dives into diverse geogrid samples and soils with distinct particle size distributions, unveiling the nuanced dynamics of soil-geogrid interactions. Aperture dimensions of the geogrids emerge as a critical factor, with findings hinting at intricate patterns that dictate optimal performance.  Beyond conventional methodologies, the research introduces Geogrid Bricks as a pragmatic solution for pothole repair, positioned strategically for adaptability. This innovation provides a glimpse into a potential paradigm shift in road maintenance practices, complemented by the promise of cost efficiency and sustainability. The right aperture dimensions and optimum area ratios critical for geogrid applications in sustainable road infrastructure is discovered through this research process. |
|  |
| KEYWORDS: Geogrid, Infrastructure Development. |
|  |
| CATEGORY: Transportation Engineering. |