

# Sustainable Geopolymer Concrete using Indigenous and Waste Materials

- HiFunda recently developed a geopolymer concrete (GPCC) formulation methodology, guidelines, and processes that accommodate indigenous and waste materials (IWMs) from different locations and/or waste streams.
- Significant progress has been made during an Army Phase I SBIR contract.<sup>1</sup> Additional Phase II funding is required to further advance the technology.
- HiFunda is looking for potential end users within the Army, other DoD agencies, and commercial companies.
- Robust GPCC formulations and processes will enable the Army and DoD contractors to replace ordinary Portland cement and concrete (OPCC) with GPCC to **significantly reduce lifecycle fossil fuel consumption and greenhouse gas (GHG) emissions.**
- Potential significant reductions in logistics burden and shipping costs by incorporating IWMs in the OPCC and/or GPCC especially for remote areas and forward operating bases.
- Please contact HiFunda for additional information.

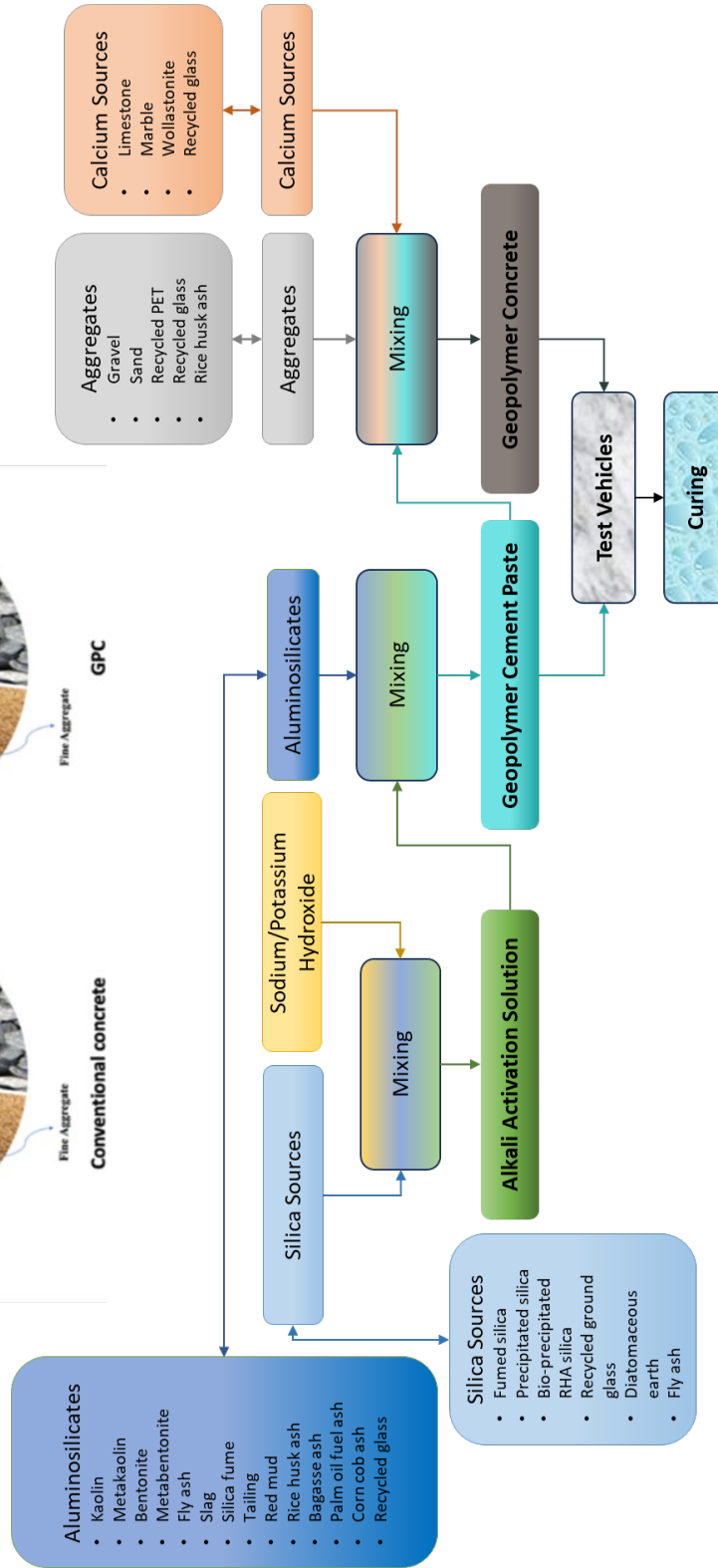
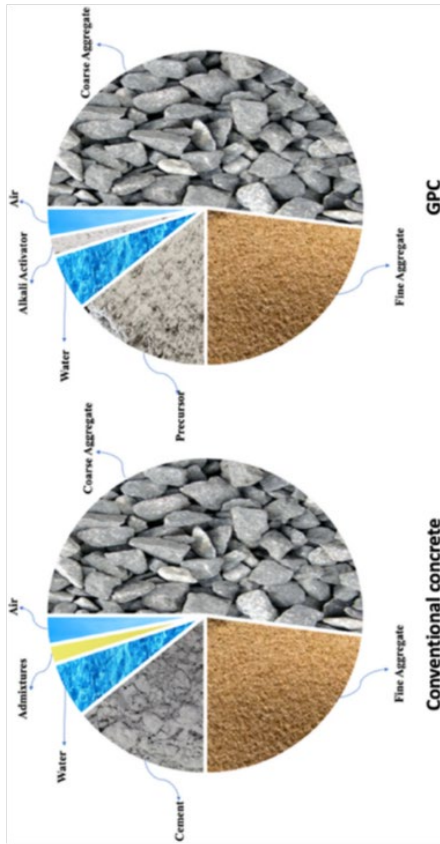
1. <https://www.sbir.gov/node/2576279>



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<https://hifundallc.com/services-and-technologies#508efc8b-f418-4f4c-9e1d-f719c7bed393>

# Sustainable GPCC using IWMs



Flowchart of GPCC Process using IWMs