

CELABDEN

Optimization at laboratory scale of Celestite Mineral concentration using dense media in a Hydrocyclone system

by



This project aims to use low-medium grade mineral (60-69 %), accumulated in the mine tailings and dumps, after a concentration process. Preliminary studies have demonstrated that the most adequate and effective method to concentrate the Celestite mineral is by gravity separation using a high-density media in a hydrodynamic regime with a hydrocyclone system. The main objective of this proposal is the optimization of parameters of the concentration process before scaling up to a semi-industrial pilot plant developed by the partner company.

Vertical sector addressed

- Mining Process Engineering
- Equipment Manufacturer

Challenges tackled by SMEs

- New value chain
- Sustainable sourcing and circular economy

Key actions addressed

- KA 1
- KA 2
- KA 3
- KA 4

MINE-PoC scheme

