

# Low Concentration Slurry Transportation

## Product/Process Profile

The low concentration test loop facility developed at IMMT comprises of 50 mm and 100 mm NB pipes run by centrifugal slurry pumps. The pipe flow characteristics of minerals/ores/industrial waste slurries at slurry concentration range of 10-40% by weight can be evaluated for scale-up design of commercial slurry pipelines.

## Application Area

- Ores & Mineral Processing Industries

## Advantage

- Safe, silent and reliable mode of transport

## Major Raw Materials/Plant Equipments/ Machinery/Gadgets

- Low concentration slurry pump, Piping & Valves, Dosing, Mixing and homogenization unit, Instrumentation

## Scale of Development

- Pilot Scale experiments in 50 mm and 100 mm Nominal Bore pipes

## Validation Level

- Pilot plant experiments

## Commercialization Status

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## Techno-economics

- Transport cost is lower as compared to road/rail transport

## IP Status

- Know-how with the institute

## Technology Package

- Engineering drawings, Training & demonstration

