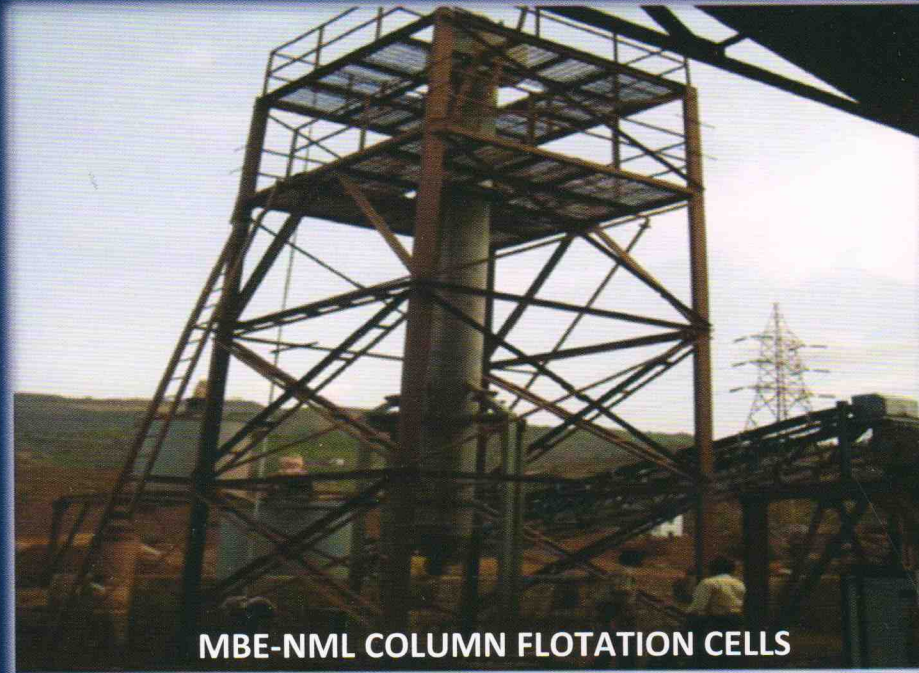


# McNally Sayaji Engineering Limited

An ISO 9001:2000 Company

A Subsidiary of McNally Bharat Engineering Company Limited



**MBE-NML COLUMN FLOTATION CELLS**

At MBE we believe in constantly reinventing ourselves. And in line with this we are always on the lookout for new avenues and opportunities

McNally Sayaji Engineering Limited (MSEL), with factories in Kumardhubi, Asansol, Bangalore and Baroda, is one of the country's leading manufacturers of Crushing, Screening, Milling, Material Handling and other heavy equipment, serving the core sectors of the economy. These sectors include Coal, Mining and Mineral Processing, Power, Steel, Ports, Cement, Aluminum and Non-Ferrous Metals.

**The manufacturing units have ISO 9000 certification.**

We have marketing and branch offices at Kolkata, Baroda, Mumbai, Kumardhubi, Bangalore, Chennai,

Secundrabad, Cochin, Nagpur, Vizag and Vijaywada. This makes us capable of comprehensive customer support at all times.

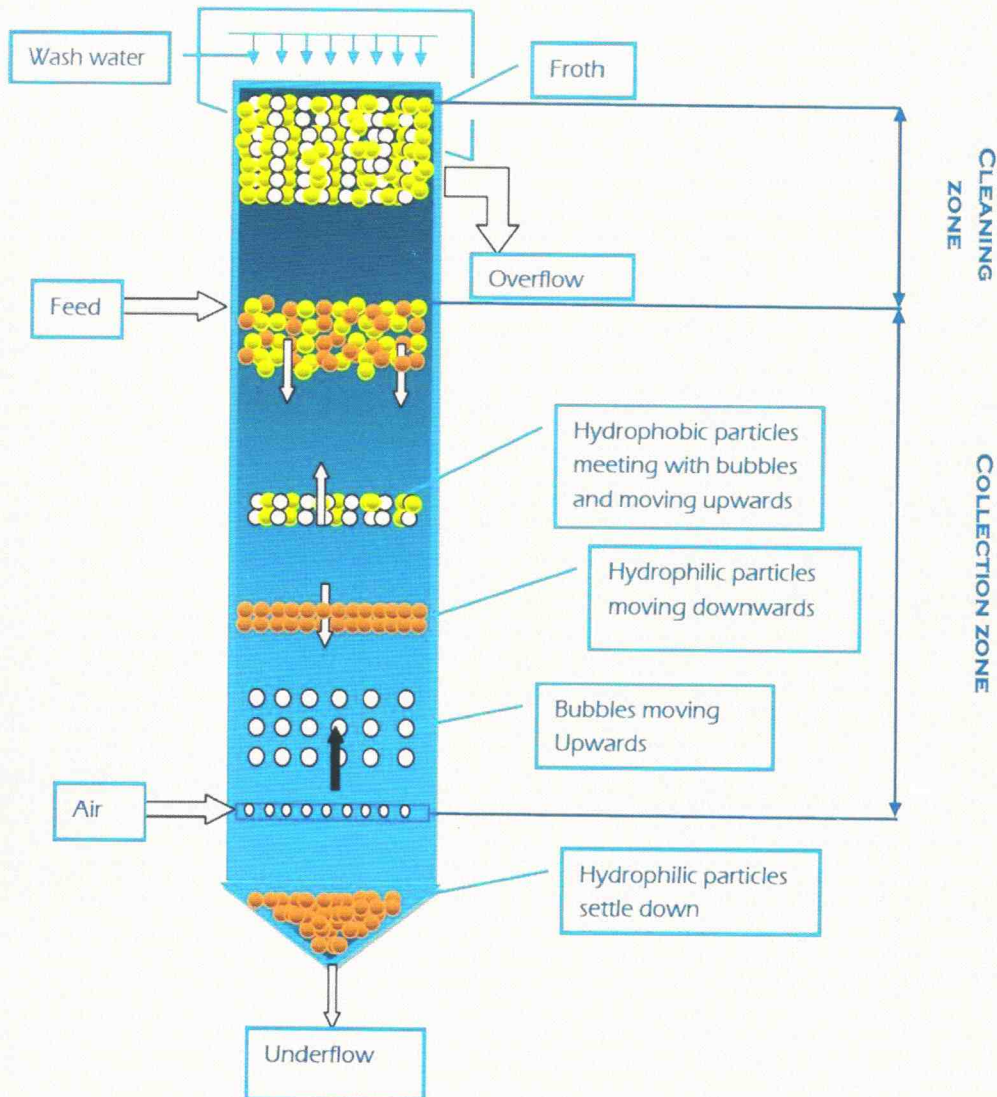
MSEL has inducted technology over the years through strategic alliances and developed focused R&D and Design & Development teams, who offer optimum and cost effective solutions to meet customer needs



## MBE-NML Column Flotation

National Metallurgical laboratory is one of the renowned laboratories in India dedicated for continuous research and development in the field of Metallurgy and Mineral beneficiation. We are proud to be their partners in the Journey of building column Flotation cell. After successful lab, pilot scale testing and various commercial scale installations, we introduce MBE-NML Column Flotation cells to the world of processing industries.

### Column Flotation in Operation



The basic Success of any Flotation cell lies in the fact that the bubbles meet hydrophobic particles of the feed and carry them to overflow. For this to happen it is always better to create more no of bubbles and also of finer size and that's what column Flotation does.

The conditioned feed enters the column at about two thirds height. The unique sparger system specially designed by NML, installed at the bottom generates bubbles with sufficient kinetic energy & of finer size so as to trap all the hydrophobic particles. The design of column Flotation ensures that there is enough time for the particles to come in contact with the bubbles and carry them to the overflow. The hydrophilic particles settle down at the bottom which is discharged.

The mineralized bubbles reach the upper portion of the column, i.e. cleaning zone, they encounter a blanket of wash water which sweeps away gangue and slurry water entrapped in the froth.

