

# ICC CASE STUDY: Factory Acceptance Testing

**Client:** ArcelorMittal; Canada, China & Liberia

**Year:** 2013 – 2015

**Project Summary:** ICC led equipment inspections and the review of inspection test plans of iron ore mills and port materials handling equipment from two major international suppliers at numerous locations across China.



## Key Assignments / Responsibilities:

- Contract Technical Specifications Review
- Factory Acceptance Test Support
- Technical support for legal issues with supply of equipment
- Reporting to Senior Management and Stakeholders

## Background:

Our specialists have International experience of inspecting and completing factory acceptance testing of major equipment (mechanical, process and electrical) for cement and heavy industrial plants.

ICC initially led in Canada, China and Liberia, independent technical investigations and design reviews for 3 iron ore mills for a new 15 Mtpa concentrate plant, when the project had encountered delays and significant manufacturing quality issues.

## The Project:

Following the initial investigations, ICC was appointed to lead equipment inspections and the review of inspection test plans of three iron ore ball mills and various port materials handling equipment from two major international suppliers at numerous locations across China.

ICC ensured that selected equipment was produced according to contract specifications and agreed international standards by providing technical inspection support for;

- Reviewing the materials being used
- Witnessing mechanical testing of materials i.e. tensile and hardness testing
- Weld quality & non destructive testing
- Dimensional checks
- Trial assembly
- Test running of equipment
- Electrical tests of motors and control equipment
- Validation of packing, shipping and insurance details

## Outcome:

For some of the major equipment, ICC was required to assist with re-work requirements, a review of legal contract documents in preparation for potential specialist witness support and warranty conditions due to poor standards of equipment. The ICC support and technical investigations enabled the client to strengthen their negotiating position due to the numerous quality problems encountered during manufacture. This resulted in better value being achieved.

