

cpi Product List

Process Design

Assessment of raw materials for new kiln line
Raw materials testing advice for materials handling
Preparation of tender enquiry documents
Evaluation of supplier tender offers
Negotiation with equipment suppliers
Quarry design and exploitation plan
Raw mix design
Plant equipment sizing
Review of plant drawings and layout
Fuels selection advice
Commissioning of new/upgraded plant
Post-commissioning audit
Supervision of guarantee tests

Troubleshooting

Plant audit
Rating of equipment
Burner pipe optimisation
Plant chemistry evaluation
Reliability strategy guidance
Shutdown planning support
Major mechanical engineering solutions
Materials handling solutions
Fuel and power consumption reduction
Kiln/mill output optimisation
Fuzzy logic optimisation

Product Development and Quality Control

Cement additives optimisation
Variability reduction programme
Cement performance optimisation

Environmental

CO₂ reduction strategies
Alternative fuels and raw materials selection
NO_x and SO₂ reduction strategies
Pollution abatement equipment optimisation
Environmental audits

Management Development

Management structure and operations review
Selection process and testing programmes
Plant Manager mentoring
Process Engineer development
Site safety programme assessment

Training

Kiln burner evaluation and training
Senior management training course
Cement technology for equipment suppliers
Process Engineer training
Laboratory operative training
Safety training
Refractory training
Cement technology for non-technical managers

Strategic Development

Due-diligence assessments
Advisors to market research companies
Advisors to private equity/venture capital groups
Market strategy advisors
Corporate strategy advisors

cpi Recent Projects

Al-Abbas Cement - Process design review - Pakistan

Desktop review of the uprating plans of 2 kiln lines and a plant visit to inspect the installation of the new equipment

Blue Circle Southern Cement - Kiln optimisation and fuel consumption reduction - Waurin Ponds, Australia

2 week assignment by a Principal Engineer and a Master kiln burner to investigate and optimise the kiln output and fuel consumption of a twin string calciner

Buxton Lime Industries - Kiln optimization assistance during tyre burning trial - Buxton, UK.

Provided assistance to optimize the calciner operation during the tyre trials - advised on maximizing tyre addition rates maximized, minimising emissions and avoiding build-up.

Buzzi Cement - Performance and operations review - Signal Mountain, USA.

Review of operations at the plant to identify areas for improvement

Cementos Argos - Apolo kiln uprating project - Barranquilla, Colombia

Process consultants on the uprating of a recently acquired plant

Cementos Argos - New 5000 tpd kiln line - Cartagena, Colombia

Process consultants on the design of a new 5000 tpd clinker line.

Cementos Yura - Kiln line audit and review of uprating proposals - Arequipa, Peru

Review of current pyro-processing operations and technical review of the uprating plans for the plant.

Cemex UK - Kiln output optimisation - Barrington, UK.

2 week assignment of a Master burner to assist in optimising kiln output with a new alternative fuel, and a process engineering study reviewing potential performance improvement opportunities.

Golden Bay Cement - Refractory failure investigation - Portland, New Zealand

Review of the circumstances of repeated failure of the kiln hood refractory of a recently uprated plant.

Golden Bay Cement - Plant operations review - Portland, New Zealand

Month long visit by an operations expert to review technical and operational issues following the recent uprating of the plant.

Undisclosed client - Evaluation of raw materials for a new kiln line