

**PRAGYA**

Data • Insights • Solutions



CERTIFIED COMPANY

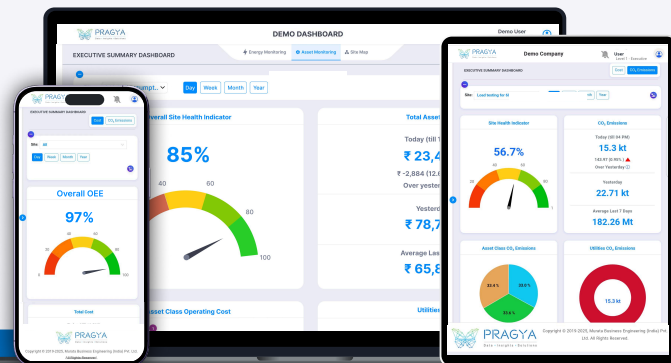


# TURN YOUR FOUNDRY INTO A PREDICTABLE, LOW-REJECTION CASTING LINE

Real-time insight into furnaces, sand systems, and moulding lines to stabilise process parameters and cut scrap at the root cause.

## CASTING INDUSTRIES

- ✦ Hold melt temperature, sand moisture, and cycle times inside tight limits.
- ✦ See energy and equipment issues hours earlier—not after a bad batch.
- ✦ Trace every heat and batch so you know why defects happen, not just where.



COFFEE ?



Contact Us :

✉ [contact.pragya@mbei.co.in](mailto:contact.pragya@mbei.co.in)

☎ +91 9704565276

**muRata**

Murata Business Engineering India Pvt. Ltd.



### PAIN POINTS IN CASTING INDUSTRY



#### High Rejection Rates

Difficulty maintaining melt temperature, sand moisture causing defects.



#### High Energy Consumption

Furnaces and compressors consume large power without clear monitoring.



#### Unexpected Equipment Failures

Breakdowns in furnaces, compressors, or moulding lines interrupt production.



#### Lack of Process Traceability

No real-time tracking of batch parameters or production conditions.

### PRAGYA SOLVES THESE PROBLEMS



#### Operations Monitoring

##### Pragya provides real-time visibility for:

- Furnace temperature monitoring
- Machine vibration monitoring
- Moulding line cycle tracking
- Production performance tracking
- Sand moisture monitoring
- Rejection trend tracking

IMPROVE PLANT RELIABILITY UP TO 15%



#### Energy & Utility Monitoring

##### Pragya optimizes energy usage by tracking:

- Furnace power consumption
- DG performance monitoring
- Compressor pressure monitoring
- Voltage, Current, PF monitoring
- Transformer load monitoring
- Section-wise energy analytics

REDUCE ENERGY LOSSES UP TO 30%



#### Process & Quality Monitoring

##### Pragya improves process control by monitoring:

- Melt temperature stability
- Hydraulic and air pressure
- Sand moisture levels
- Quality-related parameters
- Moulding cycle time

IMPROVE PRODUCT CONSISTENCY



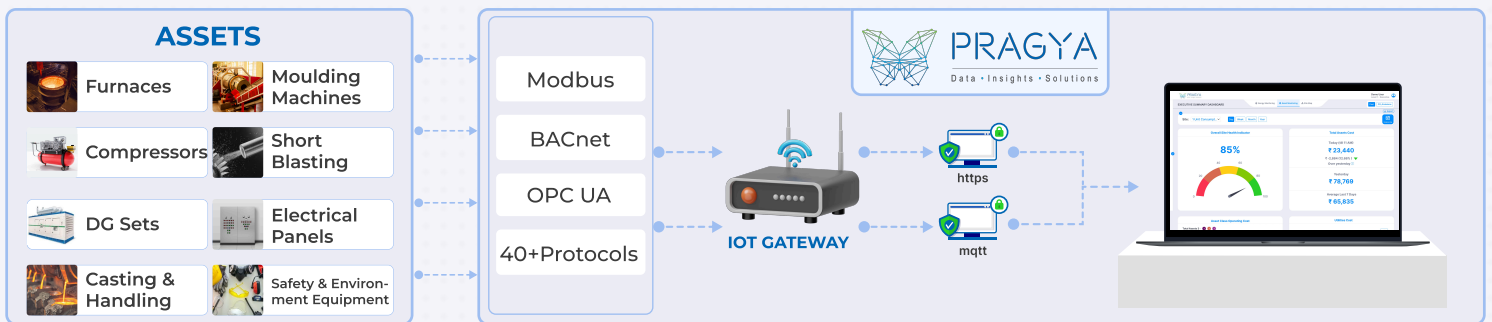
#### Smart Alerts & Reporting

##### Pragya detects issues early through:

- Furnace temperature alerts
- Equipment fault alerts
- High vibration alerts
- Automated production reports
- Air pressure alerts

IMPROVE OPERATIONAL EFFICIENCY UP TO 20%

### WORKS WITH ALL CASTING PLANT ASSETS



### WHY CHOOSE PRAGYA



Reduce rejection 20-40% with parameter alerts



Save energy upto 10-20% through optimization



Ensure consistency with batch traceability



Increase machine life with early fault detection



Boost production with live dashboards



Get instant alerts for process deviations

LOWER SEC - HIGHER UPTIME - ZERO SURPRISES - COST OPTIMIZATION

See Pragya in Action. Book Your Free Pilot Today → [contact.pragya@mbei.co.in](mailto:contact.pragya@mbei.co.in)  
Experience real savings before you commit