

A close-up photograph of industrial machinery. In the foreground, there are several red handwheels for valves. Behind them, there are various colored cables (blue, yellow, green) and electrical components. The background is slightly blurred, showing more of the industrial environment.

Turnkey EC&I

The **EPCM-IPES JV** provides total solutions turnkey EC&I, Communication Systems and Industrial Infrastructures across the key markets of Energy, Mining, Natural Gas and Oil, Petrochemical and Urban Development.

Our clients are both the private and public sector, including independent developers, parastatal institutions, government bodies, city councils and municipalities.

The EPCM-IPES JV specialise in the following:

- **Electrical Engineering:** low voltage (LV) and medium voltage (MV) fields. Services include MV and LV supply and distribution, MV substations, power factor correction, overhead power lines and ETAP, peripherals for offices, data centre electrical requirements and UPS systems. In addition to these, IPES specialises in security and safety systems as well. These include lightning protection and earthing, security and alarm systems, external and security lighting, access control, fire detection and closed-circuit television.
- **Control and Instrumentation:** flow, pressure and temperature calculation and monitoring for a wide range of liquids and gasses, valve sizing and orifice plate calculations, Safety Integrity Level (SIL) calculations, hazardous area classification and intrinsic safe loop design and certification. Control and communication services include Supervisory Control and Data Acquisition (SCADA) systems, radio-based telemetry networks, industrial satellite-based remote monitoring and Remote Terminal Unit (RTU) panel layout and design.
- **Information and Communication Technologies:** terrestrial radio, fibre-optic systems and networks, GSM for industrial applications and narrow band satellite communications. Applications include calculation and data processing via SCADA systems for process plants, advanced reporting from historian systems, server data duplication, record keeping and retrieval, transmission of general documentation and process test transmissions for set-point comparison and alarm systems.



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IPES is an independent Engineering Consultancy, with a penchant for precision and a passion for people, specialising in Electrical, Control and Instrumentation design.