



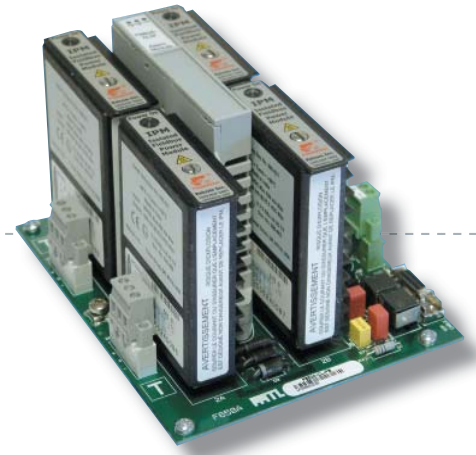
APPLICATION STORY: ONGC, GODAVRI BASIN, INDIA

India's **Oil and Natural Gas Corporation (ONGC)** adopted **FOUNDATION fieldbus™** instrumentation for the on-shore gas separation unit as part of the G1-GS-15 development project in the Godavari Basin. **MTL Fieldbus Barriers** were selected to provide a connection between the **Honeywell Experion-PKS C200** host control system and intrinsically safe (IS) fieldbus instruments located in Zone 1 hazardous areas throughout the plant.

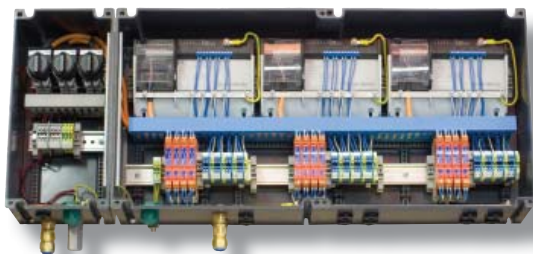
The **Fieldbus Barriers** operate by combining the wiring hub and IS barrier functions within field-mounted enclosures, with the 'home-run' connection implemented using non-IS wiring techniques that are suitable for installation in **Zone 1**.

MTL provided a range of custom stainless steel enclosures to specifications issued by **Honeywell Automation India Ltd**. Each enclosure accommodated either three or four barrier modules plus separate terminals for the fieldbus trunk connections, allowing connection to up to sixteen field devices at each node. MTL **F650A** redundant power supplies were used to power the fieldbus trunk.

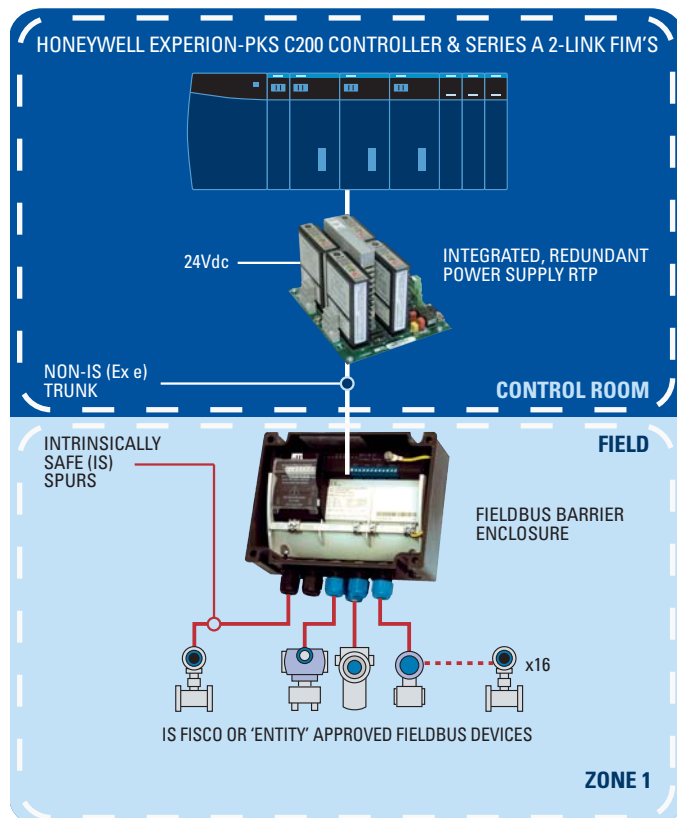
Fieldbus Barriers may be connected to fieldbus instruments that are certified to either the **FISCO** standard or the earlier FF-816 'Entity' rules. These devices can be located in a Zone 0 or 1, IIC or IIB hazardous location, with the barrier enclosure itself in Zone 1 (gas) or Zone 21 (dust) environments. Spur lengths up to 120m are permissible, even with FISCO-certified field devices.



F650A INTEGRATED FIELDBUS POWER SUPPLY SYSTEM FOR HONEYWELL EXPERION-PKS



CUSTOM FIELDBUS BARRIER ENCLOSURE



Live workable spurs on a High Energy Trunk application

