

WORKOVER-PRO Data Acquisition & Monitoring System

JIACH Energy Solutions Private Limited has developed **WORKOVER-PRO System** — an advanced, integrated digital platform engineered to enhance operational efficiency, safety, and performance of workover rigs.

This intelligent system enables **real-time data acquisition, processing, visualization, and analytics**, empowering operators with actionable insights for safer and more efficient operations



Key Features & Capabilities

- **Electronic Actuated Twin Stop System (Crown-o-Matic & Floor-o-Matic)** Ensures protection of rig equipment by continuously monitoring block height and automatically applying brakes before contact with crown or rig floor occurs. Compatible with both drilling and workover rigs.
- **BOP Safety Interlock with Ram Indicators** Prevents dangerous operations such as pulling against closed BOP rams.
 - Alerts the driller when rams are closed
 - Overrides rig throttle to avoid equipment damage
 - Enhances safety during shift changes and unexpected stoppages
- **Ton Mile Indicator System** Provides accurate ton-mile measurements to protect critical equipment and improve overall operational safety.

Advanced Monitoring Parameters

- Mud Pump Pressure Indicator
- Flow Totalizer (Counter), Total Stroke & Running Hours
- Hydro-Mechanical Rotary Torque Indicator
- Rotary RPM Monitoring
- Weight Indicator (Hook Load)
- Pump SPM (Strokes Per Minute)
- Automatic Hook Load Limiting Device

- Over-Pull Protection System (Throttle Limiting)
- Weight on Bit (WOB) Monitoring

Safety & Tank Monitoring

- Trip Tank Level Indicator with Alarm & Hooter
- Integrated Gas Monitoring System:
 - LEL (Lower Explosive Limit) Sensors
 - H₂S Gas Detection
 - Monitoring at critical zones:
 - Bell Nipple
 - Below Substructure
 - Shale Shakers

Data Intelligence & Reporting

Report Management System (RMS)

- Automated Daily Report Generation
- Structured Data Logging

Historical Well Data Support

- 1 year Storage
- Enables performance analysis and decision-making
- Improves planning and operational optimization

Why Choose WORKOVER-PRO?

- Enhanced Safety & Risk Mitigation
- Real-Time Operational Visibility
- Reduced Non-Productive Time (NPT)
- Equipment Protection & Longevity
- Data-Driven Decision Making