REQUEST FOR PROPOSAL (RFP)

Sanchez Ltd

PROJECT OVERVIEW

Name: Indust Laurafort Automation Retrofit
Type: Automation Retrofit
Location: Lake Laurafort, WA (Refinery Zone)
Industry: Manufacturing
Value: $623,601
Complexity: 1/5
Date: April 09, 2025
Disciplines: Industrial Automation, Process Engineering
Regulations: ISO 9001

SCOPE OF WORK

Scope of Work: Generic Automation Retrofit in Refinery Zone

Project Goal: To upgrade the existing control system of a specific unit within a refinery zone, improving efficiency and reliability while adhering to safety and regulatory standards. This project focuses on a Level 1 complexity retrofit.
1. Industrial Automation Discipline:

*** Task 1: PLC System Upgrade: Replace the existing Programmable Logic Controller (PLC) with a new Rockwell Automation CompactLogix 5370 PLC, including migration of existing program logic. This involves creating a detailed I/O mapping document for all field devices, programming the new PLC to match the existing functionality, and thoroughly testing the new system using factory acceptance testing (FAT) before site installation. All programming will adhere to IEC 61131-3 standards.**

*** Task 2: HMI/SCADA System Modernization: Upgrade the existing Human Machine Interface (HMI) system with a new Wonderware InTouch system, improving operator interface and providing enhanced visualization and data logging capabilities. This includes designing a user-friendly HMI screen layout with clear process information, configuring data communication protocols (e.g., Ethernet/IP) between the HMI and PLC, and documenting the HMI system configuration.**

*** Task 3: Safety Instrumented System (SIS) Review and Enhancement: Review the existing SIS (if any) for compliance with IEC 61508 standards and implement minor enhancements to improve reliability and safety. This includes a review of existing safety functions, verification of proper documentation, and potentially updating a single safety relay module with a modern equivalent, ensuring all modifications are thoroughly documented and tested.**
2. Process Engineering Discipline:

*** Task 1: Process Instrumentation Verification: Verify the calibration and accuracy of existing process instrumentation (temperature transmitters, pressure transmitters, flow meters, etc.) using calibrated equipment. This includes generating a list of all instrumentation to be verified, performing in-situ calibration for each device according to manufacturer?s specifications, and documenting all calibration results and any necessary adjustments in a formal report.**

*** Task 2: P&ID Review and Update: Review and update existing Process and Instrumentation Diagrams (P&IDs) to reflect the changes implemented during the automation retrofit. This will involve incorporating the new PLC and HMI components into the diagrams, updating instrument tags and loop numbers, and ensuring consistency with the final as-built documentation. All updates must adhere to ISA standards.**
Cross-Disciplinary Tasks:

*** Task 1: Joint Commissioning: Conduct a joint commissioning activity involving both Industrial Automation and Process Engineering teams. This includes coordinated testing of the upgraded automation system interacting with process equipment, documenting test results and resolving any discrepancies discovered during testing. Successful completion requires sign-off from both teams to verify proper system operation.**

*** Task 2: Documentation Management: Both teams will collaboratively manage all project documentation according to ISO 9001 standards. This involves creating a standardized filing system, ensuring consistent documentation practices are followed, and maintaining version control of all documents (drawings, software code, test reports, etc.).**
Complexity Impact Note: The project scope falls within the defined Level 1 complexity due to the straightforward nature of the upgrades and the lack of major process or system modifications.

REQUEST FOR QUOTATION

Request for Quotation (RFQ): Indust Laurafort Automation Retrofit

Project Name: Indust Laurafort Automation Retrofit

Project Location: Refinery Zone, Lake Laurafort, WA

Industry: Manufacturing

Issued Date: April 09, 2025

Response Due Date: May 18, 2025
Project Start Date: May 08, 2025

Project Duration: 6 months

Contract Type: Fixed Price

Contact Email: procurement@manufacturing.com
1. Project Overview:
This RFQ seeks proposals for a Level 1 complexity automation retrofit at our Lake Laurafort refinery. The project involves upgrading the control system of a specific unit, improving efficiency and reliability while adhering to safety and regulatory standards. The scope includes PLC (Rockwell Automation CompactLogix 5370) and HMI (Wonderware InTouch) system upgrades, SIS review and minor enhancements, process instrumentation verification, P&ID updates, and joint commissioning. Detailed scope of work is attached.
2. Scope of Work (Summary):
* Industrial Automation: PLC & HMI system upgrades, including program migration, I/O mapping, and testing. SIS review and minor enhancements.
* Process Engineering: Process instrumentation verification and calibration, P&ID review and update.
* Cross-Disciplinary: Joint commissioning and comprehensive documentation management.

3. Qualifications:
* Minimum 3 years' experience in industrial automation within the manufacturing sector.
* Demonstrated experience in regulatory compliance (relevant industry standards).
4. Proposal Requirements:
* Detailed technical design (1-2 pages).
* Comprehensive cost breakdown.
5. Evaluation Criteria:
* Technical Approach (50%)
* Cost (30%)
* Experience and Qualifications (20%)
6. Important Dates:

*** RFQ Release: April 09, 2025**

*** Questions Due: April 18, 2025**

*** Proposals Due: May 18, 2025**

7. Attachments: Detailed Scope of Work (separate document).

CONTACT

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TIMELINE

Include key dates such as submission deadlines, inquiry deadlines, and project start dates.