# Expression of Interest (EOI)

Establishment of Proof of Concept (PoC) for Remote Control System (RCS) – at AGCL Cloud.

Assam Gas Company Limited (AGCL) invites Expressions of Interest (EOI) from Original Equipment Manufacturer (OEM) for establishing a Proof of Concept (PoC) for a Remote-Control System (RCS) to be hosted on AGCL's cloud environment.

## Objective:

The objective of this PoC is to demonstrate the feasibility and functional capabilities of remotely managing and controlling AGCL's process control systems via a cloud-hosted RCS, with seamless communication between cloud services and field-level instrumentation.

**Pree qualification Criteria (PQC):**

Only Original Equipment Manufacturers having establishment in India, shall be allowed to participate in POC Establishment. To establish PQC Criteria, bidder need to submit flowing document along with the EOI.

1. Printed catalogue in the name of bidder along with available website link.
2. Operation and maintenance manual of Remote-Control System.
3. Company incorporation certificate issued by MCA.

Engineer In charge/Point of contact for execution of POC: Mr. Suresh Das, Manager (Instrumentation) – mail: sureshdas@agclgas.com , cell: 7002100817

## High-Level Scope of Work:

1. Cloud Hosting of RCS:
    - Deploy the Remote-Control System (RCS) on AGCL's designated test cloud environment.
    - Ensure secure and scalable hosting architecture.
2. Signal Communication Integration:
    - Enable and validate Analog Input/Output (AI/AO) and Digital Input/Output (DI/DO) communication between the test cloud and connected field devices.
    - Simulate typical field signals if required.
3. Remote Setpoint Control & PID Tuning:
    - Establish capability to send remote setpoints from the cloud to the field.
    - Implement and demonstrate Proportional–Integral–Derivative (PID) tuning from the cloud interface.
4. Cascade PID Loop Configuration:
    - Configure and test cascade control loops in the PoC environment.
    - Optimize performance through loop tuning and stability testing.
5. Logical and Mathematical Control Execution:
    - Configure and test cascade control loops in the PoC environment.
    - Optimize performance through loop tuning and stability testing.
6. Data Integration with AGCL Systems:
    - Capture real-time process values and transmit them securely to the AGCL database via API.

    - Ensure data integrity and logging of control actions for audit and traceability.
7. Third Party Device Communication in all open protocols as per industry standards.
8. Any other functionality

## Expected Deliverables:

- Cloud-hosted RCS instance with active AI/AO/DI/DO communication and Serial Communication as per Industrial Practice.
- Configured PID and cascade control loops with remote tuning.
- Engineering Tool to configure IO's and Other loop configuration and protocol setting.
- User Interface , Trending , alarm setting and alarm log.
- Live integration of process values into AGCL's backend systems via API.
- Demonstration and documentation of functional capabilities.

## Timeline and POC Terms and Conditions:

1. EOI Submission: Interested parties are requested to submit their EOI along with relevant technical credentials, project experience in control and instrumentation within 14 Days of publication of this EOI.
2. POC can be started shall be determined after submitting the EOI as per mutually agreed data and time which may continue for maximum seven working days.
3. After completion of POC for seven days AGCL shall jointly evaluate performance and there will be joint MOM.
4. Parties who will execute POC successfully need not to execute POC for the upcoming tender process where there will be mandatory PQC criteria for successful execution of POC.