

## **Nigerian Gas Company Limited**

### **Invitation for the Submission of Expression of Interest**

The Nigerian Gas Company Limited (NGC), a subsidiary of Nigerian National Petroleum Corporation (NNPC) intends to undertake urgent Rehabilitation / upgrade of the Shagamu Metering Station, Shagamu, Ogun State (referred to as

LOT 1), Rehabilitation / upgrade of the Egbin Metering Station, Ikorodu, Lagos State (referred to as LOT 2) and Upgrade of Ikeja Metering Station, Ikeja, Lagos State (referred to as LOT 3).

### **LOT 1: Expression of Interest for the Rehabilitation/Upgrade of Shagamu Metering Station. (To Be Included in A Separate Package, Clearly Marked Lot 1).**

#### **1a Proposed Scope of Works for Lot 1**

- Recalibration of Pressure safety valves (PSVs).
- Replacement of Pig Signaler, Level Control Valves (LCVs), Mechanical recorders and U.V detectors.
- Calibration of Level Switches, Level controllers, Pressure Differential Switches.
- Complete overhaul of the existing 2Nos heaters-including replacement of all associated faulty instrumentations/servicing of water level controller and temperature controllers, Cleaning/ replacement of heater tubing, Servicing of pilot burners, big joe regulators e.tc.
- Servicing of Temperature Control Valves.
- Supply and install masonellan Pressure Control valves with its associated positioners and limit switches
- Supply and install smart/digital pressure transmitters, I/P converter airfilter regulators, temperature transmitters and flow transmitters,
- Servicing of all pressure switches, Pressure transmitters, pressure gauges, Temperature gauges, Differential pressure gauges.
- Servicing of Orifice Fittings
- Replacement of the control room and field fire panel and tie all the U. V detectors to a fire alarm on the control room.
- Supply, install and commission a new gas chromatograph with its accessories and training of NGC personnel on its operation.

- Replacement of the existing station control panel with a new one comprising of supervisory computer, supervisory PLC, a stand by computer, ESD systems, electronic flow recorder and other vital instrumentation in consonance with existing and modern operating philosophy. (Re-integration of the control system to ensure its fully on DCS unit regarding the following:
  1. Activation/sensing/detecting/indicating of fire & gas alarms and detectors.
  2. Indicating value and location of parameters such as pressure, temperature, differential pressure, liquid level of facility system
  3. Control of MOV's from the control room
  4. Liquid dumping from scrubbers and separator
  5. Activation of reduction skid on flow demand
  6. Ability to operate in Auto /manual control etc.
  7. Reactivation of the bum pit and station and process areas flood lights.
  8. Supply and install a 150KVA gas fired CAT Genset with a generator skid and lighting
  9. Rehabilitation of the water treatment plant including replacement of faulty valves.
  10. Drilling of new water borehole and installing with appropriate water pump
  11. Installation of internet facilities and painting of the control room building
  12. Replacement of all station pressure gauges and general serving/ overhauling of all station valves and actuators.
  13. Provision of 2Nos 2HP split air conditioners and 9Nos window 2HP air conditioners,
  14. Re-commission the station and restore gas supply operation to the operating pressure.

**LOT 2: Expression of Interest for the Rehabilitation/Upgrade of Egbin Metering Station. (to be Concluded in a Separate Package, Clearly Marked Lot 2**

**1b Proposed Scope of Works for Lot 2**

The scope of works include but not limited to the following:

- Servicing/Recalibration of Pressure safety valves (PSVs) and all the alarm and shut down switches.
- Replacement of kicker line valve 10" x 6" x 10" MOV petro valve, 16" x 600 MOV and 30" x 24" x 30" outlet ball valve.
- Replacement of 30" gaskets, 2" ball valves, 1" ball valves, Level Control Valves (LCVs), Mechanical recorders and U.V detectors.
- Calibration of Level Switches, Level controllers, Pressure Differential Switches.
- Complete overhaul of the existing 3Nos heaters-including replacement of all associated faulty instrumentations/servicing of water level controller and temperature controllers, Cleaning/ replacement of heater tubing, Servicing of pilot burners, big joe regulators etc.
- Servicing of 16" Temperature Control Valves (TCVs).
- Supply and install 16" masonellan Pressure Control valves with its associated positioners and limit switches
- Supply and install smart/digital pressure transmitters (15-60bar), I/P converters, pressure regulators (0-30Psi), temperature transmitters and flow transmitters.
- Servicing of all pressure switches, Pressure transmitters, pressure gauges, Temperature gauges (0-60°C), Differential pressure gauges.
- Servicing of all the Orifice Fittings
- Replace the control room and field fire panel and tie all the U.V detectors to a fire alarm on the control room.
- Supply, install and commission a new gas chromatograph with its accessories and training of NGC personnel on its operation.
- Replacement of the existing station control panel with a new one comprising of supervisory computer, supervisory PLC, a stand by computer, ESD systems, electronic flow recorder and other vital instrumentation in consonance with existing and modern operating philosophy (Re-integration of the control system to ensure its fully on DCS unit regaling the following:
  - Activation/sensing/detecting/indicating of fire & gas alarms and detectors.
  - Indicating value and location of parameters such as pressure, temperature, differential pressure, liquid level of facility system
  - Control of MOV's from the control room

- Liquid dumping from scrubbers and separator
- Activation of reduction skid on flow demand
- Ability to operate in Auto /manual control etc.
- Reactivation of the bum pit and station/process areas flood lights,
- Supply and install a 150KVA gas fired CAT Genset with a generator skid and lighting and 7KVA UPS,
- Rehabilitation of the water treatment plant including replacement of faulty valves.
- Drilling of new water borehole and installing with appropriate water pump ad supply water fire hose
- Installation of internet facilities and painting of the control room building and hydrant water tank
- Replacement of all station pressure gauges and general serving/overhauling of all station valves and actuators
- Replacement of all station Ledeen actuator coils with 24Volts D.C coils.
- Rehabilitation of all station dip sticks
- Provision of 2Nos 2HP split air conditioners and 9Nos window 2HP air conditioners.
- Re-commission the station and restore gas supply operation to the operating pressure.

**Lot3: Expression of Interest for the Upgrade of Ikeja Metering Station, Ikeja, Lagos State (to be Included in a Separate Package, Clearly Marked Lot 3).**

**1C PROPOSED SCOPE OF WORKS FOR LOT 3**

The scope of works includes but not limited to the following:

- Replacement of two (2) Gas Filter Separators.
- Installation of Gas Scrubbers,
- Replacement of Control Valves on the pressure Reduction Skid.
- Procurement and installation of three (3) Turbine Meters.

- Refurbishment of the indirect Fired Heaters.
- Replacement of Pressure Safety Valve.
- Replacement of Slop Tank
- Re-commission the station and restore gas supply operation to the operating pressure.

## **2.0 Specified Requirements from Interested Companies**

Those interested in the pre-qualification process are required to submit comprehensive technical and financial information as follows:

### **2.1 Company Legal Status and Profile**

Company's name, postal address, telephone/fax number and e-mail address of Head Office where correspondence is to be directed. It should incorporate Nigerian shareholding and evidence of company registration in Nigeria Including Certificate of Incorporation, certified true copies of Memorandum and Articles of Association and CAC Form Co7.

### **2.2 Registration Certificates**

Evidence of Company incorporation, current registration with the Department of Petroleum Resources (DPR), and registration with NNPC or any of its subsidiaries.

### **2.3 Local Content**

Has contractor formed a joint venture with Nigerian or foreign contracting firms? If so, give details and identify principal partner(s) and provide a copy of executed Joint Venture agreement.

### **2.4 Relevant Experience**

Provide verifiable evidence of previous corporate experience and capabilities in the construction of gas handling facilities or similar works. The prospective bidder should provide details of completed project(s) considered relevant in demonstrating its capability.

This information which should be for each completed project must include the following:

- Name of project(s).
- Brief description of project(s).
- Client(s).

- Scope of works performed by the contractor.
- Contract value
- Date of award of contract(s).
- Contractual period for execution of contract(s).
- Actual period of execution.
- Reason