



PetroSA

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SCOPE OF WORK

ENQUIRY NO: AHT 25190

DESCRIPTION: EMERGENCY SUPPLY OF BULK LIQUID NITROGEN AT THE FA PLATFORM

1. INTRODUCTION

The Petroleum Oil and Gas Corporation of Southern Africa ("Company") is in planning to shutdown the FA Platform. An Offshore installation located 82km south of Mossel Bay. Once shutdown of the FA Platform is completed immediately the process facility will require a service provider (Contractor) that can provide liquid nitrogen with gas vaporization equipment, hoses and associated connections

The contractor will be required to pump gaseous nitrogen into the process plant pipeworks. Since all the equipment, in particular the liquid nitrogen tanks and vaporizers are to be shift offshore they are required to be offshore-certified. The Contractor will also have to provide trained personnel to operate the nitrogen containment and vaporization equipment. The Contractor will be required to provide certification of their equipment and personnel.

A mobilization period of between 2 and 4 weeks will be given to the Contractor for this Project.

Contractor must have health, safety and environmental management and quality management systems that meet Company's quality and certification requirements.

2. SCOPE OF SERVICES

The contractor shall inject/pump gaseous nitrogen into FA Platform process pipe works by providing and executing the following in rendering the Service:

- 2.1 Suitably inspected, maintained and operated equipment to successfully perform the service in an efficient and effective manner.
- 2.2 Suitably qualified and experienced personnel to prepare, maintain and operate Contractor's equipment to successfully perform the service in an efficient and effective manner at the FA Platform
- 2.3 All permits and documentation necessary for the shipment of Contractor's equipment from Contractors base to Mossel Bay Harbour
- 2.4 Procedures, technical advice and guidelines as required and requested by Company for the safe and successful operation of Contractor's equipment
- 2.5 The measurement and recording of all pressures, volumes and calculations as required in the performance of the service. All measurements shall be in the units (either kpa or bar)
- 2.6 Preparation and submission of reports, printouts and plots of the work performed and information obtained as required by Company.
- 2.7 Attend meetings as required and requested by Company at Company's Bases and FA Platform, including but not limited to Task Risk Assessments, Detailed Intervention Project scoping and planning, Kick-Off Meetings, Project Readiness Meetings and Management of Change Meetings.
- 2.8 Other related equipment, personnel and services as required on a call off basis.
- 2.9 Supply 32 tons of usable liquid nitrogen in offshore certified isotainers

3. DELIVERY AND PLANNED EXECUTION

A PO will be issued on award of the contract to the Contractor. The company plans to issue the Contractor with mobilization notice immediately upon award of a purchase order (PO).

4. WORKING HOURS

FA Platform works are as follows

- Maintenance Personnel – 6am to 6pm
- Production Personnel – On a 24hrs split into day and night shift of 12hrs each

However, the Contractor is expected to provide a 24 hours operation team as the injection of nitrogen into the process pipeworks will continue none stop until the entire process plant is fully purged.

5. SAFETY EQUIPMENT AND APPAREL

The Contractor shall ensure that all its personnel engaged in the performance of the Services are provided as a minimum with the following safety equipment/apparel in good condition:

- Safety shoes/boots
- Overall with long sleeves
- Hard hat
- Rain suit
- Safety gloves
- Hearing protection
- Safety glasses
- Safety harness

The Contractor shall supply any additional safety equipment/apparel required for the safe execution of the Services.

All safety equipment/apparel shall bear the SABS mark and be approved by Company Safety Department.

6. ACCOMMODATION & TRANSPORT

The Contractor shall at its own cost deliver all materials, tools and equipment necessary for this assignment to PetroSA facilities in Mossel Bay Harbour. Company PetroSA will transport at its own cost via a cargo vessel all Contractors equipment to FA Platform. Some of the contractors' personnel maybe required to sail with the cargo vessel so as to look after the pressurized nitrogen tanks on the aft deck.

The rest of the Contractor personnel shall on the day of mobilization report to PetroSA heliport in George airport at 8:00 am and subsequently be flown to the FA Platform.

PetroSA shall only provide contractors personnel with accommodation and meals onboard the FA Platform and also onboard the vessel for those travelling from harbor to FA Platform with the cargo vessel.

7. SPECIFIC CONDITIONS

7.1 EQUIPMENT REQUIREMENTS

- 7.1.1 Contractor shall ensure that the Equipment is properly maintained in good working order and repair throughout the duration of the operation. Contractor shall bear all costs and expenses of the repairs (including the spare parts), maintenance and replacements of the Equipment, including all costs and expenses in connection therewith; such costs shall be deemed to be included in the charges as specified. Contractor shall provide, store and maintain a reasonable stock of spare parts and operating supplies of the Equipment and any necessary repair, replacement or maintenance shall be promptly carried out by the Contractor at their cost.
- 7.1.2 Contractor shall use his best endeavours to provide any additional equipment which may be required and requested by Company, such equipment to be supplied according to the provisions of the Contract and Contractor's Price List which shall be included in the Contract with any applicable discounts.
- 7.1.3 Contractor warrants that all the Equipment provided for, or in connection with, the Contract shall be of the highest quality normally used in good offshore oilfield practice, shall comply with all relevant standards or specifications stipulated by Company or at law and shall be fit for the purpose for which they are intended so as to permit continuous and efficient performance of the service.
- 7.1.4 Contractor warrants that the Equipment provided for, or in connection with, the Service is compliant with the requirements set out in Company's QHSE Specification contained herein.
- 7.1.5 Contractor shall obtain and maintain at its own cost and expense such Inspection certificates for the Equipment as Company may reasonably require.
- 7.1.6 Contractor warrants that the Equipment provided for, or in connection with the service meets the specifications listed by Contractor.
- 7.1.7 Contractor shall promptly provide a satisfactory replacement (and the transport to and from location) at its own cost and expense of any item of the said Equipment lost or damaged or found to be defective; inappropriate; inefficient or otherwise not in accordance with the contract.
- 7.1.8 Should additional equipment relating to Nitrogen services be

required by Company during the Contract Period, this can be added and agreed upon by both parties before the Well Intervention Project.

TABLE 1: EQUIPMENT REQUIREMENTS

ITEM	QTY	DESCRIPTION
1	As Required	Nitrogen Converter / Pump
2	As Required	Nitrogen Tanks
3	As Required	Nitrogen, Hoses, Fittings, Spares,etc
4	As Required	Nitrogen Workshop Unit
5	As Required	Liquid Nitrogen minimum 32 tonnes

Nitrogen Skid Supply:

- Flow rate of 2,500Nm³/hr.
- Pressure of 70 Bar
- Volume of 36 m³ or 32-ton of Nitrogen

Notes:

- a) Contractor's equipment to be rated for DNV Zone II use where applicable.
- b) Contractor's equipment must be able to raise nitrogen pressure within the process pipeline to 80bar, thus all contractors equipment must be suitably rated to more than 80 bar.
- c) Provision of 10 x 40m hoses rated at more than 80 bar.
- d) Company shall upon award state the connection types that the Nitrogen vaporizer discharge hoses must have.

7.2 PERSONNEL REQUIREMENTS

7.2.1 Contractor shall provide suitably qualified and experienced personnel to perform the Service efficiently and effectively for Company. Contractor shall obtain Company's prior approval of Contractor's personnel. Contractor shall ensure that personnel scheduled for offshore work are in possession of a valid offshore survival certificate issued by an approved training authority as well as a medical certificate of fitness for offshore work. Contractor shall forward copies of the above certificates to Company representative prior to Contractor's personnel travelling offshore.

7.2.2 At the instruction of Company in writing the Contractor shall remove from duties hereunder or lawfully secure such removal of any personnel who are unacceptable to Company who shall state

the reason for such removal in the written instruction. The Contractor shall replace such personnel at its own expense with suitably qualified and experienced personnel capable of performing the services in an efficient and effective manner.

- 7.2.3 Contractor shall be responsible for complying with all safety laws and regulations and for taking all necessary safety precautions relating to or arising out of the performance of the Contract in order to protect the Work, Contractor's personnel, Company and Company's Other Contractor's Personnel, all Third Parties, the property of Company.
- 7.2.4 Contractor shall ensure that all Contractor's personnel are provided with and use all necessary personnel protective clothing and equipment appropriate to the Work, which shall be maintained in good condition or replaced and shall be worn on all relevant occasions.
- 7.2.5 In the interests of safety and security, Company requires that Contractor's personnel embarking for transport to or from the PetroSA site produce evidence of identification, normally a passport, and consent to the searching of any package, toolbox, holdall or suitcase in their possession. Any of Contractor's personnel unwilling to comply with such requirements shall not be permitted passage to or from Company Site and notwithstanding anything to the contrary in the Contract, Contractor shall be responsible for all liabilities and costs arising directly or indirectly therefrom.
- 7.2.6 Contractor's personnel shall not at any time when in transport to and from and at the Company Site have in their possession or consume any medicine (unless approved by Company in case of medical necessity), drugs, alcohol or similar intoxicating substances. Thus all personnel shall be breathalyzed at all entrances to Company site. Only those passing the breathalyzer test shall be allowed into the Company site.
- 7.2.7 Contractor's personnel shall be fully fluent in written and spoken English and shall be suitably experienced
- 7.2.8 Contractor shall provide Company reasonable notice in advance of any intended change out of Contractor's personnel and shall obtain Company's prior approval of substitute personnel.
- 7.2.9 Contractor's Personnel shall as a minimum have undertaken the following training: Offshore Survival and Fire Fighting Course including HUET

8. CHANGES TO THE SCOPE OF SERVICES

The scope of the Services shall be subject to changes by additions, deletions or revisions thereto by PetroSA. The Supplier shall be advised of any such changes by written notification from PetroSA describing the change. The Supplier shall promptly perform and strictly comply with each such change when so instructed by PetroSA. Any extra services resulting from such changes will be charged at the Supplier's normal or agreed rates.

9. ENQUIRIES

Any enquiries regarding this tender should be addressed to **Zonazihle Sityata** in the Tender Office at telephone no. **044 601 2311**, or e-mail address **Zonazihle.sityata@petrosa.co.za**.