



**PetroSA**

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## **SCOPE OF WORK**

**ENQUIRY NO: AHT0000025213**

**DESCRIPTION: EMERGENCY PROVISION FOR NITROGEN SUPPLY AND SERVICES AT THE FA PLATFORM**

### **1. INTRODUCTION**

PetroSA Plans to conduct an inline inspection of its 8”, 90km long condensate export pipeline between the FA Platform and the onshore GTL refinery in Mossel Bay. The inline inspection of the pipeline will be conducted by first running a cleaning pig, a gauging pig, followed by an intelligent pig. Nitrogen will be required to move the pigs to the GTL site.

This document therefore details the scope of services required for the provision of a Nitrogen Generation SPREAD to be used during these pigging operations. In addition, it is PetroSA’s intention that the Nitrogen SPREAD be utilised to supply suitably pure Nitrogen (and at sufficiently low pressure) for purging / safe making of the FA platform, in preparation for a planned shutdown of the entire facility for maintenance activities. Some of these safe making steps may occur in parallel to the pigging operations – depending on spare Nitrogen availability.

The required duration of Nitrogen supply for both the pigging and safe making

activities is variable, but an operational period (excluding mobilisations, commissioning, etc.) of 28 days is assumed. A standard 7 days of 'standby' time is also allowed (e.g. non-operational periods of installation / commissioning).

The required mobilisation period for delivery of the services is to be supplied by the Contractor.

## **2. SCOPE OF SERVICES**

The Contractor shall **mobilise, provide custom clearance and delivery** of a suitable Nitrogen Generation SPREAD to conduct the work. The SPREAD shall be mobilized to Mossel Bay harbour for use at the FA Platform. The SPREAD shall include but not necessarily be limited to the following:

- 2.1 Air Compressors and suitable pre-conditioning for high purity Nitrogen generation – e.g. filtration units. The number and sizing of the Air compressors is to ensure the required quantity and quality of Nitrogen can be reliably produced.
- 2.2 Nitrogen generation units to reliably meet quantity (continuous supply) and quality requirements. High purity Nitrogen (99 vol%) will be required.
- 2.3 Own power Generators (diesel driven) and any required electrical hook-ups. Company will supply diesel, but Contractor is to estimate diesel consumptions and timeously communicate diesel needs to COMPANY.
- 2.4 Booster compressors to meet supply pressure for pigging operations.
- 2.5 Air and nitrogen hoses complete with associated accessories
- 2.6 Nitrogen Flowmeter and data logger
- 2.7 Supply Pressure Chart Recorder for pigging operations.
- 2.8 Experienced Personnel
- 2.9 Manifolds, Adaptors, valves and fittings to align with connections to PetroSA points of use for the various activities.

The Contractor shall suitably inspect, maintain, operate, integrate and function test equipment onshore and offshore prior to commencement of the pigging and other required operations

## **3. CONTRACTOR'S RESPONSIBILITY**

- 3.1 Detailed engineering and procedures of the activity which includes a clear indication of which tasks are to be performed for safe and reliable operation of the Nitrogen Generation spread.
- 3.2 Drawings indicating that all of the Nitrogen SPREAD equipment can be located on the proposed deck of the FA platform. A bid clarification as well as a site survey by the Contractor is highly recommended.

- 3.3 Provision of equipment datasheets and necessary performance curves that confirm the capability of the SPREAD to meet the required Nitrogen purity and capacity requirements.
- 3.4 The Contractor shall participate in all required interactions with the Company to ensure high quality risk assessments, procedures and necessary reviews with the pigging contractor and Company staff.
- 3.5 Preparation of a detail plan showing the co-ordination and logistics required between all involved parties and locations to safely perform the services in accordance with identified procedures and risk assessments.

The Contractor shall ensure that adequate human resources (personnel dedicated to the project) and equipment redundancy are allocated to ensure safe and continuous operations.

#### 4. NITROGEN EQUIPMENT OPERATION REQUIREMENTS

- 4.1 The Contractor shall ensure that the equipment is properly maintained in good working order and repaired if required throughout the term of the contract. Contractor shall bear all costs and expenses of the repairs (including the spare parts), maintenance and replacements of the equipment, 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.
- 4.2 The Contractor shall use his/her best endeavors 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.
- 4.3 The 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.
- 4.4 The 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.
- 4.5 The Contractor shall obtain and maintain at its own cost and expense such Inspection certificates for the equipment as Company may reasonably require.
- 4.6 The Contractor warrants that the equipment provided for, or in connection with, the Service meets the specifications listed by Contractor.
- 4.7 The 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.
- 4.8 The equipment shall meet the following minimum requirement:
  - (1) Two identical nitrogen generation units capable of producing **2000 scfm** each of nitrogen at a **purity of 99 vol%**. One unit will be in continuous use during pigging exercises and one will be on standby. However, the COMPANY may wish to simultaneously operate the

second generator to supply nitrogen for platform purging / safe making when required.

- (2) Delivery pressure to pigging operations of 45 barG minimum. This must be achieved by one operating booster compressor. A second booster compressor must be available as a standby.
- (3) Delivery pressure of Nitrogen for platform purging / safe making is 20 barG maximum. Appropriate pressure safeguarding is required. Thus, Nitrogen for this purpose must be taken upstream, of the booster compressor. The Nitrogen flowrate for this purpose must also be manually controllable.
- (4) A number of air compressors suitable for continuous operation of one nitrogen generation unit (meeting capacity and purity specification), plus at least one additional standby air compressor.
- (5) Diesel powered generators – and associated electrical infrastructure – suitable to power all air compressors (incl. standby) , all nitrogen generators (incl. standby) and one booster compressor (it is not envisaged that simultaneous operation of two booster compressors will be required).

**Note:** The operating philosophy will be as follows:

- The primary purpose will be the reliable and continuous supply of Nitrogen to support the pigging requirements.
- Should it be required, spare simultaneous Nitrogen generation capacity will be used to supply the facility purging needs (at lower supply pressure).
- Once pigging operations are complete, the Nitrogen SPREAD will be utilised to complete any remaining purging and safe making operations.

The Contractor shall be required to keep sufficient plant, tools, equipment and spares on site to effectively perform the service. All the equipment shall be intrinsically safe.

The Contractor is to provide and listing of all technical and commercial qualifications or exclusions of supply or particular services required of the Company in order to deliver the required scope of work.

## **5. PetroSA RESPONSIBILITY**

The Company shall provide (from separate and concurrent tender) the required pigs. The Contractor shall provide all management, supervision, personnel, materials and equipment, (except materials and equipment explicitly specified to be provided by the Company), plant, consumables, facilities and all other things whether of a temporary or permanent nature, so far as the necessity for providing the services specified or could reasonably be inferred from the contract.

The Company shall supply diesel fuel (with quality as is currently utilised by FA platform operations) for requirement of Contractor power generators. The

Contractor is to supply daily diesel fuel consumption estimates as part of this tender.

## **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.

The Contractor shall supply a breakdown of all expected personnel disbursements costs, in line with Contractor policies. Such costs shall be approved by the Company and invoiced at cost.

## **7. SPECIFIC CONDITIONS**

The Contractor shall comply with the following requirements:

- 7.1 Standards and Procedures to be followed to ensure Contractor personnel safety in the execution of the works and in compliance with PetroSA SHEQ requirements, including procedures for identifying protective equipment for specific jobs and procedures for confined space entry.
- 7.2 Accountability of Contractor's key personnel with regards to safety at the work site.
- 7.3 Participation in risk assessments to identify hazards and the control measures to be used to eliminate or reduce the risk
- 7.4 Emergency procedures and first aid
- 7.5 Housekeeping
- 7.6 Basic personal protective equipment; compliance with PetroSA requirements
- 7.7 Accident / incident reporting
- 7.8 Submit an HSE Plan

## **8. PERSONNEL**

The Contractor shall provide personnel who are suitably experienced and qualified to act on behalf of the Contractor for this service.

All personnel supplied by the contractor should have a valid offshore survival tickets and medical certificate of fitness in English language and the medical certificate should indicate clearly which test have been conducted.

In the event that the supplied operation personnel are foreign to South Africa, it is required that they apply for Section 11 (2) VISA with authorization to work within South Africa and only travel to South Africa after obtaining such VISAs , otherwise without the VISA one would not be allowed to fly to the FA Platform.

Any operational delay attributed to the Contractor, e.g. personnel having arrived in South Africa without the necessary VISA or documentation listed above delay operations shall be attributed to the Contractor and PetroSA shall for that period of the delay not be charged the Spread ( personnel or equipment) day rate.

## **9. 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.

## **10. 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**.