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The information given below is an extract of the scope of work. **To access/open the full set of tender documentation, you must be registered on CSD.**

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<http://www.procurement.petrosa.com/Downloads/Documents/SupplierSelfRegistration.pdf>

ENQUIRY NO: AHT26232

DESCRIPTION: PETROSA RESERVES AUDIT

SCOPE OF WORK

1. INTRODUCTION

The Gas-to-Power project objective is to deliver an economically viable power generation solution by monetising existing offshore gas and known gas discoveries, all within the same producing offshore block (Block 9).

The proposed delivery rate is 45 MMscf/d landed onshore for approximately 10 years, with expected production start envisaged to be Q4 2028. Initial gas supply will be from existing wells, with new developments supplementing production from year 5.

PetroSA is the operator and 100% equity owner of the gas and oil fields in Block 9 in the Bredasdorp Basin, located off the south coast of South Africa. The assets comprise multiple producing gas fields, two mature oil fields currently shut in, and a number of undeveloped discoveries.

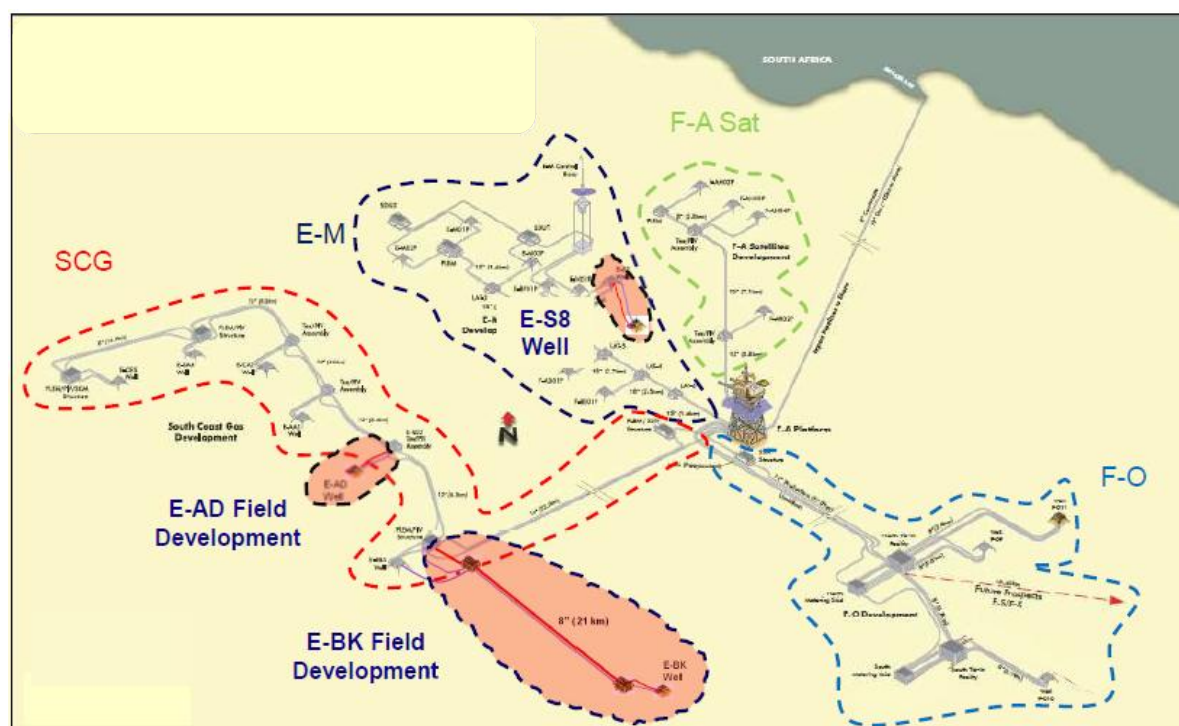
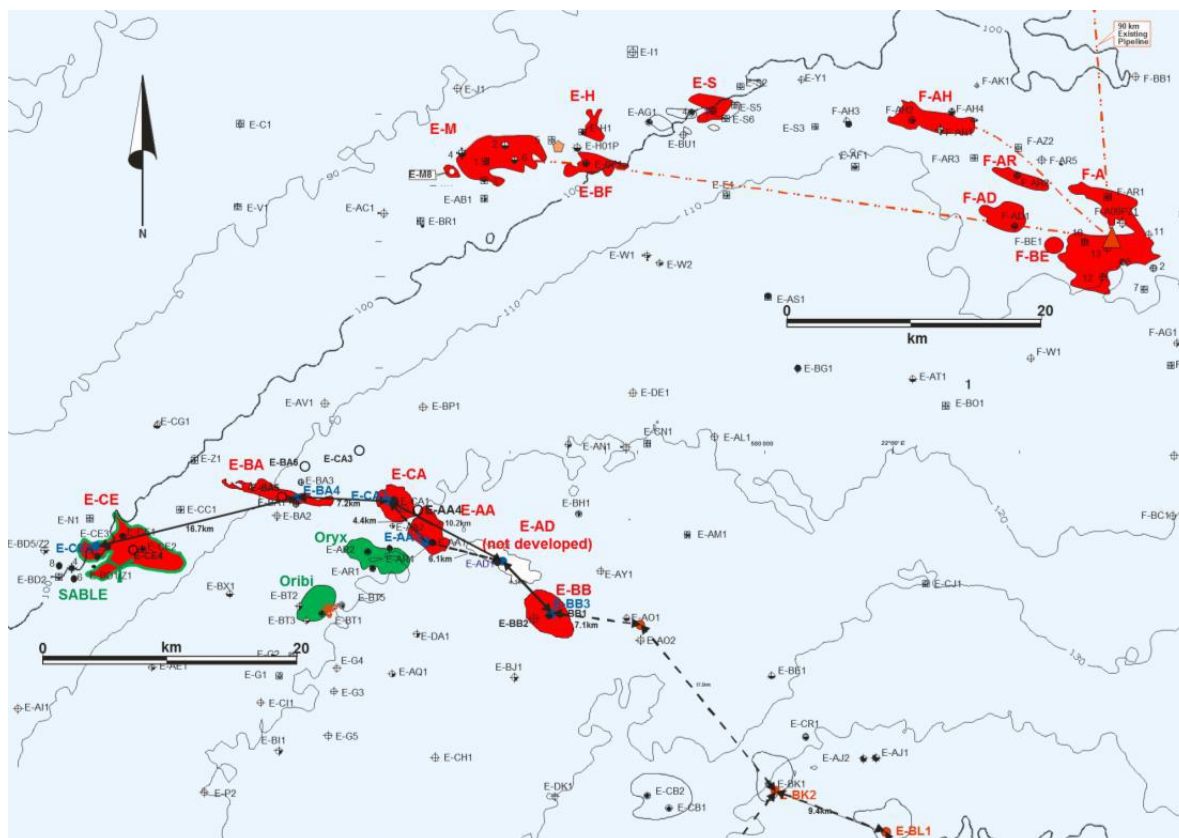
The producing gas fields comprise:

- F-A and its satellite fields F-AH and F-AR
- E-M and its satellites E-H, E-BF, F-BE, F-AD and E-S (E-S is actually a SCG field but it flows into the E-M pipeline and is considered an E-M satellite)
- South Coast Gas field (SCG) comprising E-CE, E-BA, E-CA, E-AA, and E-BB
- F-O gas field.

There are approximately 25 gas production wells.

The undeveloped discoveries within the PetroSA Production Rights currently being evaluated by PetroSA are the E-BK gas, E-AD gas and E-S gas (adjacent to the developed E-S7

The figures below show the locations of the relevant fields and their proximity to the F-A platform.



2. SCOPE OF WORK

This scope of work (SoW) outlines the tasks and deliverables for conducting a reserves and resources audit of the subject fields, including the identification and evaluation of field development candidates. The audit will assess the quantity, quality, and classification of reserves and resources in accordance with the relevant industry standards (SPE-PRMS guidelines). The goal is to provide an accurate and comprehensive evaluation that supports business decision-making and future field development strategies.

The Services to be provided shall be the following relating to PetroSA 2025/2026 Reserves Certification:

2.1 Objectives

- **Quantification:** To assess and quantify the hydrocarbon reserves and resources in place.
- **Classification:** To classify reserves into proven, probable, and possible categories, and resources into contingent and prospective categories.
- **Field Development Candidates:** To evaluate fields that are considered viable for future development, based on technical, economic, and operational considerations.
- **Compliance:** To ensure compliance with industry standards and regulations for reserves reporting.
- **Decision Support:** To provide insights that will support strategic decision-making for field development and exploration planning.

2.2 Deliverables

- **Reserves and Resources Report:** A comprehensive report summarizing the audited reserves and resources by field, with appropriate classification and categorization (All fields)
- **Field Development Candidate Assessment:** A separate section detailing field development candidates with key technical and economic considerations for each (E-S, E-AD, F-AD and E-BB)
- **Sensitivity Analysis:** A report identifying risks and sensitivities that may impact reserves and resources estimates, particularly related to field development decisions.
- **Recommendations:** Clear recommendations for managing reserves and resources, including optimal strategies for field development (particularly relating to E-S, E-AD, F-AD and E-BB)

For the F-A and satellites, E-M and satellites, F-O, and SCG fields, the work scope will be as follows:

The audit will review production performance, dynamic models, and integrated production models (GAP, MBAL, PROSPER) used for forecasting gas and condensate production, along with reservoir simulation. It will assess reserves (1P, 2P, 3P) and resources (1C, 2C, 3C), provide reserves and resource certificates for each field, and deliver a report detailing the methodologies, assumptions, and further recommendations.

- Review the production performance to 2025.
- Review the available dynamic models and its inputs, as used internally to forecast the total gas and condensate production to the shared platform.
- Review the integrated production model (MBAL-PROSPER-GAP) and its inputs, as used internally to forecast the total gas and condensate production to the shared platform.
- Determine the 1P, 2P and 3P reserves as of 01 April 2025, using the PRMS definitions.
- Review and perform a resources evaluation (1C, 2C, 3C resources estimates)
- Provide a reserves certificate per field for the 1P, 2P and 3P reserves
- Provide a resource certificate per field for the 1C, 2C and 3C resources
- Provide the 1P, 2P and 3P gas and condensate reserves and resource on a field and per wells.
- Provide a report including in particular a description of the methodologies used, cut-offs and assumptions made to estimate the reserves, the details of the resources evaluation and any further recommendations

For E-BK, E-S and E-AD fields, the work scope will be as follows:

The audit will involve reviewing various aspects such as production performance, reservoir characterization, engineering inputs, history match, sensitivity analysis, and production forecasting, with most of the work being simulation-based. A reserves and resources evaluation will be conducted, determining 1P, 2P, and 3P reserves and resources (1C, 2C, 3C), along with providing certificates, oil production forecasts, and a comprehensive report detailing the methodologies, assumptions, and further recommendations.

- Review the subsurface geological, geophysical, petrophysical and reservoir engineering inputs and analysis.
- Review of reservoir characterization and static modelling
- Review of the reservoir engineering inputs for simulation
- Review the latest static and dynamic models
- Review of history matching and model calibration
- Review of well placement options and development plan
- Perform sensitivity analysis of the developments
- Review of production forecasting and recoverable volumes
- Determine the 1P, 2P and 3P reserves
- Perform a resources evaluation (1C, 2C, 3C resources estimates)
- Provide reserves and resources certificates per field
- Provide a report including in particular a description of the methodologies used, cut-offs and assumptions made to estimate the reserves, the details of the resources evaluation and any further recommendations

For E-BB and F-AD fields, the work scope will be as follows:

The audit will assess the production performance, reserves, resources, and infill potential of two candidates, providing an independent evaluation and recommendations on their feasibility. A detailed report will be produced, outlining the methodologies, assumptions, and further recommendations and work program for maturing these assets.

- Review the production performance to 2025
- Review of existing concepts for pre-feasibility
- Provide independent assessment of the infill potential, reserves, and resources of these two candidates
- Provide recommendations on the proposed, or alternate, E-BB and F-AD production enhancements, including economic aspects
- Provide incremental production and extension of plateau for the GTP project
- Provide a report including in particular a description of the methodologies used, cut-offs and assumptions made to estimate the reserves, the details of the resources evaluation and any further recommendations

3. TIMELINES

The 2025 reserves and resource audit process will begin with presentations in Cape Town, followed by the handover of data and models. Forecast assumptions will be provided shortly thereafter. The draft report, profiles, and certificates will be prepared by the auditor and reviewed by PetroSA. After the review, the auditor will incorporate PetroSA's comments and recommendations, making necessary revisions and thereafter provide a final report, to the satisfaction of the client.

ACTIVITY / DELIVERABLE	DUE DATE
Kick off	Week 1
Send preliminary data to the Auditor	Week 2
Data and Model Handover	Week 4
Visit to Cape Town for Presentations	Week 4 - 5
Draft Report, Profiles, and Certificates Due	Week 10
Review by PetroSA	Week 11
Revisions by Auditor Due	Week 12
Final Review and Revisions by PetroSA and Auditor Due	Week 13

4. ENQUIRIES

Any enquiries regarding this tender should be addressed to **Saseka Sihlwai** in the Tender Office at telephone no. 021 929 3441 or e-mail address saseka.sihlwai@petrosa.co.za

5. Scope Clarification Meeting

PetroSA has scheduled a **virtual (TEAMS)** scope clarification meeting at **11:00** on **Wednesday, 20 June 2025**. Should the tenderer wish to attend it must inform the PetroSA representative by end of business day **on 19 June 2025**.

Consultants are advised to attend the scope clarification meeting in order to acquaint themselves with the nature of the supply required and local conditions, as no claims will be entertained in this regard once the tender has been awarded. **The scope clarification meeting will give Consultants an opportunity to seek clarification of the tender documentation to facilitate completion thereof.** Non-attendance at the above meeting will not disqualify a tender.