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TENDER BULLETIN 3

ASSET DISPOSAL ENQUIRY NO: AD00104

TENDER (RFT): SALE OF TWO SUBSEA CHRISTMAS TREES AND SUBSEA EQUIPMENT.

QUESTION 1

What is the pressure and temperature ratings on the trees eg % K , 10 K , 15 K psi

ANSWER 1

The production trees are rated at 10,000 psi (10K) and Design Temperature is -18°C (0°F) to 135°C (275°F) (material downstream of the choke shall comply with -46°C (-50°F)

QUESTION 2

Can you give us an indication on the materials and corrosion resistance on the trees eg duplex, super duplex, Inconel?

ANSWER 2

Material Trim:

- Production flow wetted surfaces: API material class FF
- MEG injection flow wetted surfaces: API material class FF
- Annulus flow wetted surfaces: API material class EE with Inconel 625 clad seal surfaces
- The materials selected ensure high corrosion resistance and compliance with DNV-RP-F112, suitable for offshore subsea service.

Directors:

Ms Unati Figlan (Chairperson)
Ms Brenda Moagi; Mr Llewellyn Delpont; Mr Thembinkosi Bonakele; Ms Ditsietsi Morabe
Group Chief Executive Officer (Acting): Mr Mmete Fusi
Group Chief Financial Officer: Ms Nombulelo Tyandela
Group Company Secretary: Ms Marlene Khumalo

QUESTION 3

What are the included accessories that you listed in the PDF document attached to the tender eg Feedthrough's , tubing, hangers , THISLs, canopies , umbilical , control panels

ANSWER 3

Please **ignore** the accessories listed in the PDF document attached to the tender. They are not included in the scope of supply for this submission.

QUESTION 4

What is the control systems in place. Is it electro - hydraulic, multiplexed, " Smart Tree features"

ANSWER 4

- **Control system:** Electro-hydraulic
- **Smart tree features include:**
 - Choke valves on production and MEG flow loops
 - MEG flowmeter
 - Sand detection on the production loop
 - Pressure and temperature transmitters
 - Subsea Control Module (SCM) for system monitoring and operation

QUESTION 5

Are there any umbilical, umbilical termination assemblies and topside control panels?

ANSWER 5

No umbilicals, umbilical termination assemblies, or topside control panels are included in the scope of supply.

QUESTION 6

Is there any Spare parts, testing, Certification(API 6A , DNV , ISO) and factory acceptance tests (FAT)

ANSWER 6

- No spare parts are supplied.
- Testing and certification: All trees are supplied with test certificates and manufacturing records.
- Compliance with relevant industry standards (API 6A, DNV, ISO) is ensured through documentation and records.

QUESTION 7

Transportation : Is it topside / subsea installation vessel and also is there any ROV support and commissioning?

ANSWER 7

- The trees are designed for subsea horizontal wet tree installation.
- PetroSA does not provide topside installation vessels, ROV support, or commissioning services.

QUESTION 8

Is there any warranties, performance guarantees and after sales support?

ANSWER 8

No warranties, performance guarantees, or after-sales support are included in the scope of supply.