CHEVRON AUSTRALIA
Jansz-Io Compression Project

TITLE: **Environmental and Facilities Monitoring Systems (EFMS)**

DESCRIPTION: Chevron Australia is seeking expressions of interest from service providers able to provide EFMS in the Jansz-Io Compression Project.

Contractor shall be responsible for the design, engineering, manufacture, assembly, inspection, testing, commissioning and transport of Environmental and Facilities Monitoring Systems (EFMS) for installation in the Jansz-Io Compression Project.

The scope of supply shall include all EFMS hardware and software, including followings:

- A state of the art, computer based fully integrated and assembled, completely functional and tested system; including but not limited to all PAS and EFMS communication interfaces, operator interface, all associated instrumentation, all pre-fabricated system cabling and connectors, configuration, programming and system commissioning for a thoroughly integrated EFMS with all its sub-systems software, such as, DAS, MAS, LMS, HMI, and any other required software.

- Project management services, including system engineering, project scheduling, testing and procurement, as required for the EFMS implementation.

- Configuration Services, if any specified in this requisition.

- The SUPPLIER shall follow all purchasing requirements hereby and into its attachments established.

- Software enhancement packages if any shall be included as options. Any software license restrictions shall be clearly stated by the EFMS SUPPLIER.

- System Documentation as specified in Document Requirement Schedule hereto attached. Including structural/mechanical arrangement for deploying and retrieving the ADCP.

- Screen shots/VDU drawings of operator interface for all EFMS systems.

EFMS shall acquire data on the following responses.

- Absolute Position and heading (DGPS)

- FCS Draft

- Ballast Tank Levels – to interface with ICSS through serial connection

- Void space leakage detection – to interface with ICSS through serial connection

- Mooring Line Tension – to interface with Mooring package.

- Mooring Line Pay-out – to interface with Mooring package.

- Sea Current profile, velocity and direction

Global & local hull stress

The EFMS shall receive as input the specified information on the facility state from the DAS connected sensor suite and other sources such as facilities PAS. The MAS takes mooring line tensions and environment forces such as currents and advise the waypoints in planning for FCS movement. The LMS shall allow operators to monitor and edit the dynamic and static loads on the facility and advise them on ballast movement to obtain stability in planning for placing heavy loads on the FCS, the LMS shall also provide accurate estimates of the platform centers of gravity (CG) and righting moment. The DAS capabilities are defined in EFMS Specifications.

The EFMS systems and sub-systems are specified in the EFMS Specifications and as the following:

- Environmental monitoring system (EMS)
- Facilities monitoring system (FMS)
- Load management system (LMS)
- Mooring advisory system (MAS)

The system shall be capable of performing all monitoring and advisory functions, such as data acquisition, first out alarming, reports, and all other operator and process interface tasks conventionally associated with FCS EFMS as per EFMS Specifications.

For MAS software it is required the manufacturer's Project team and Company project team shall be fully integrated, this integration includes but not limited to development, calibration, testing, deployment and Project Management.

Delivery to : Daewoo Shipbuilding & Marine Engineering Co., Ltd (DSME) – South Korea ship yard

CONTACT: Industry Capability Network of Western Australia –
www.icnwa.org.au/ContactUs.asp

Please Note: This is a request for specific expressions of interest. Service Providers will be considered for inclusion in the RFP if suitably qualified against this package.

PROJECT URL: https://australia.chevron.com/

ATTACHMENT:

CLOSING DATE: **15th August 2022**