

# EXPRESSION OF INTEREST



First date of publication: 1 August 2024

## **TENDER NO: DBMNE0507 ONBOARD VISUAL DATA ANALYSIS PROJECT: MACHINE VISION APPLICATION FOR REAL-TIME SIZING SCREEN OBJECT DETECTION AND MEASUREMENT.**

### **DESCRIPTION:**

Debmarine Namibia, a marine diamond recovery company situated in the Atlantic 1 Mining Licence Area (ML47), conducts diamond retrieval operations at water depths ranging from 90 to 140 meters, located about 20 kilometres off the south-western coast of Namibia. The primary goal of this research initiative is to develop an innovative machine vision model application to detect, identify, count, categorise, measure and record materials on our diamond recovery vessel sizing screens. Eligible companies or experienced consultants are invited to express interest in developing this monitoring application utilising machine vision technology, to advance our environmental monitoring efforts in the marine diamond recovery sector.

### **SCOPE OF WORK:**

The scope of work will focus on the development of a monitoring application using machine vision to detect, count, measure and record materials (+19mm in size) coming on to the screens during the recovery process on the vessels. The model will provide reliable and comprehensive data to guide informed monitoring and management strategies by collecting and analysing data in real-time. The scope should include the following.

- Image acquisition and recording setup.
- Create dataset.
- Model development.
- Train and test detection model.
- Deploy and verify the model.
- Reporting and project management.

### **DOCUMENTS TO BE SUBMITTED:**

- Company profile.
- Clear outline of expertise in machine vision.
- Relative experience in development of machine vision models
- Highlight at least three models developed.
- A similar model in the marine environment would be an added advantage.

**CLOSING DATE: 6 September 2024 at 12H00**, by electronic submission

Registered businesses interested in providing such services are requested to submit the business profiles with all relevant documents, and fees with reference number DBMNE0507 ONBOARD VISUAL DATA ANALYSIS PROJECT.

### **SUBMISSION OF ELECTRONIC COMPANY PROFILES:**

Email Address: [Tenders@debmarine.com](mailto:Tenders@debmarine.com)

Subject line: DBMNE0507 ONBOARD VISUAL DATA ANALYSIS PROJECT

### **ENQUIRIES:**

The Procurement Officer

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Subject line: DBMNE0507 ONBOARD VISUAL DATA ANALYSIS PROJECT

### **DISCLAIMER:**

Debmarine Namibia shall not be responsible for any costs incurred in the preparation and submission of a response to this tender and furthermore reserves the right not to extend this tender into any future tenders, negotiations and or engagements.

Debmarine Namibia shall not accept submissions rendered after the closing date and time.

