

## **DBMNE0422: REMOTE INSPECTION TECHNOLOGY (ABOVE WATER)**

### **SCOPE OF WORK:**

Debmarine Namibia is seeking for an experienced service provider that can supply reliable and robust drone (unmanned aerial vehicle) technology enabling remote inspection of confined and enclosed spaces as well as at height inspections on its recovery vessels. Interested parties should have proven experience in supplying drone technology for similar applications. Debmarine Namibia's needs are focused on:

1. Inspection of confined spaces (e.g. ball mills, pipes, 700mm dredge hoses, bins, tanks, screen underpans);
2. Inspection of enclosed spaces (e.g. vibrating screen bottom decks, chutes);
3. Inspection at heights (e.g. marine recovery vessel structures);
4. Training of personnel to operate the solution;
5. Maintenance and after sale support of the technology.

Debmarine Namibia requires the drone technology to have the following capabilities:

- 4K or higher camera quality;
- 180 degree or greater pan and tilt camera with lighting;
- Camera should be dust and water proof with a minimum rating of IP55;
- Full High Definition live viewing;
- 2D measurement (i.e. distance between 2 points within view);
- 3D modeling;
- Photogrammetry programme integration will be an added advantage;
- Enter 400mm diameter manholes;
- Operate remotely;
- Battery operated;
- Able to recover the drone remotely;
- Non-line of sight drone to controller communication of minimum 180 m guaranteed;
- Drone to controller communication through steel structures in a production plant. Autonomous control from the drone will be an added advantage.
- Drone to controller communication through steel, rubber with steel reinforcement, rubber or polyurethane;
- Operate in areas with radio frequencies without interference of vessel or aircraft radio transmission. Should have frequency hopping spectrum spread technology capability (FHSST);
- Collision tolerance;
- Ability to do thickness measurement of steel pipe walls, rubber and polyurethane liners will be an added advantage;
- Ability to operate in a highly flammable and explosive environment would be an added advantage.

### **DOCUMENTATION TO BE SUBMITTED:**

1. Company profile.
2. Years of experience in supplying and maintaining drone technology applicable for inspections in confined spaces, enclosed spaces and at heights.
3. Details of three (3) clients for whom similar solutions have been supplied and maintained.
4. Proof of nature of supplier status, i.e. Original Equipment Manufacturer (OEM), sole supplier in country or distributor.
5. Case studies demonstrating the technology's capability to conduct inspections in confined spaces and at heights.

### **CLOSING DATE TO SUBMIT DOCUMENTATION:**

Registered businesses providing such services are requested to submit the required documentation with Reference Number DBMNE0422 by 4 February 2022 at 12H00, by electronic submission.

### **ELECTRONIC SUBMISSIONS:**

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

Subject: DBMNE0422

File Type: Submissions to be in PDF format

### **ENQUIRIES:**

The Procurement Officer

Tel: +264 61 297 8481

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

Specify the Reference Number: DBMNE0422

### **DISCLAIMER:**

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

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