

Service Suppliers Requirements

FIRMS CARRYING OUT IN-WATER SURVEY OF SHIPS

- Extent of engagement– In-Water Survey of Ships
- Training of personnel – The supplier is responsible for the qualification of its divers and the diving equipment utilized when carrying out survey. Knowledge of the following shall be documented:
 - ✓ Ship's underwater structure and appendages, tail shaft, propeller, rudder and its bearings
 - ✓ Underwater thickness gauging and non-destructive testing in accordance with a recognized National or International industrial NDT standard.
 - ✓ Bearing clearance measurements on rudders and tail shaft.
 - ✓ Underwater video monitoring with TV-monitors on deck, as well as still picture work.
 - ✓ Operation of under-water communication system • Special equipment and tools like hull cleaners, grinders, cutters, etc.
- Plan for training of personnel in the reporting system, minimum Rule requirements for relevant ship types, ship's underwater structure, measuring of bearing clearances, the recognition of corrosion damage, buckling and deteriorated coatings, etc. shall be included.
- Supervisor – The supervisor shall be qualified according to the supplier's general requirements and shall have experience as a diver carrying out surveys.
- Divers carrying out survey – The diver carrying out the survey shall have had experience as an assistant diver carrying out survey (minimum 10 different assignments).

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- Equipment – The following shall be available:
 - ✓ Closed circuit colour television with sufficient illumination equipment
 - ✓ Two-way communication between diver and surface staff
 - ✓ Video recording device connected to the closed-circuit television.
 - ✓ Still photography camera
 - ✓ Equipment for carrying out thickness gauging, non-destructive testing and measurements, e.g., clearances, indents, etc., as relevant to the work to be performed.
 - ✓ Equipment for cleaning of the hull
- Procedures and guidelines – The supplier shall have documented operational procedures and guidelines for how to carry out the survey and how to handle the equipment. These shall include:
 - ✓ Two-way communication between diver and surface
 - ✓ Video recording and closed-circuit television operation
 - ✓ Guidance of the diver along the hull to ensure complete coverage of the parts to be surveyed.
- Verification – The supplier must have the PMDS-Surveyor's verification of each separate job, documented in the report by his signature.