

Procurement - Endpieces for pipes for submerged mussel farming.

The Danish mussel producer, Wittrup Seafood A/S, is partner in the project Baltic Muppets co-financed by EU. In the project Wittrup Seafood are developing a new mussel farming concept, where the mussels are produced on large nets on submerged systems. The mussel farming units is kept approximately 1 m below sea surface by attaching concrete blocks to the lower part of the nets. The upper part of the net is attached to a closed pipe, that keep the net in an upright position in the water column.

The PE pipes used for submerged mussel farming have an overpressure. This excess pressure makes the submerged construction more robust and means that the system can be constructed with smaller pipe thickness. A valve at the end of the pipe also enable emptying of the pipe in the event of a leak. In the existing farming systems with nets and pipes, the system is anchored in the net. This means that the pipe can slowly rotate in the net, and that the pipe is therefore kept clean of fouling. In surface systems, the pipes are made extra-long, and thus protrude from the net ends, to gain a robust construction. On a submerged system, it does not add value that the pipes can rotate. Material can therefore be saved if the pipe is not more than 10 meters longer than the net. Anchoring directly in the pipe will also mean that the strong rope that goes all the way at the top of the net and which is used for anchoring becomes redundant. Plastic material can thus be saved, and work processes are simplified.

The procurement includes the designing, development of production method, and production of 20 end-pieces for tests.

The design is reported by a CAD documentation and the development of a prototype.

The development of production methods includes a report describing the production methodology and development of tools and forms.

Value of procurement is in total 50.000 EUR

Specification of the equipment

The end-pieces are designed for a 300 mm PE pipe, with a pipe thickness of 14 mm.

The end-piece are designed with a valve, that allows to drain the pipe and to increase the pressure in the pipe to 6 bar.

The end-piece is designed with an eye, so it is possible to attach a 32 mm line for mooring to an anchor. The eye has a breaking strength of 20 tons.

The end-pieces are designed to minimize disturbance of fouling organisms.

IPR: Intellectual property right to the design

Wittrup Seafood will have 100% of the IPR to the developed end-piece.

Evaluation

The best design according to the specification and price: 40 %

References for similar contracts: 40 %

Time plan for the delivery: 10 %

Organization: 10 %

Questions to the procurement can be forwarded as email to Wittrup Seafood (rasmus@wittrup-seafood.dk) no later than 16st of September 2024 and will be replied no later than 20th of September 2024. All questions and answers will be available on the homepage: www.wittrup-seafood.dk.

Bids should be received no later than 30th of September 2024 at 12:00 AM to

CEO Rasmus Wittrup

Wittrup Seafood A/S

Ove Jensens Allé 46 C

8700 Horsens

or as mail to

Rasmus@wittrup-seafood.dk

Wittrup Seafood will evaluate the offers no later than 4th of October 2024 and will inform all bidding companies about the outcome of the tender, so a contract can be signed no later than the 10th of October 2024.