Purchase Description (PD): Hydraulic Cylinder and Vane Pump

01. General

The US Army Corps of Engineers, Portland District is purchasing a quantity of one (1) hydraulic cylinder and one (1) hydraulic vane pump for use on the **Dredge Yaquina**.

02. Definitions

Throughout this contract, terms are defined as follows:

- **Contracting Officer (KO):** Government employee who is authorized to enter into, administer and/or terminate contracts and make rel ted determinations and findings.

03. Equipment Description

3.1. Hydraulic Cylinder

Heavy-duty actuator engineered by Mathews Ma ine for a steering system in a marine environment:

- **Bore:** 5.00”
- **Stroke:** 36.00”
- **Rod Diameter:** 2.00
- **Mounting:** Spherical B aring (Base) and Clevis (Rod End)
- **Service:** Heavy-duty Hydr ulic

3.2. Hydraulic Vane Pump

Fixed-displacement, bal nced vane-type pump engineered by Mathews Marine for a steering system in a marine environment:

- **Series:** V20 Design
- **Mounting:** Foot Mount (1)
- **Inlet Port:** 1-1/2” NPT (P)
- **Ring Size (GPM):** 8 GPM @ 1200 RPM (8)
- **Outlet Port:** 3/4” NPT (P)
- **Shaft Design:** Splined (1)
- **Port Positions:** Opposite Inlet (C)
- **Design Number:** 11
- **Rotation:** Right Hand / Clockwise

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04. Submittals

Contractor to provide:

- Quantity of one (1) paper copy and one (1) digital copy of the Equipment Specification Sheets and Dimensional Drawings that demonstrate how the products meet the salient characteristics required of the product description.

05. Requirement Specifications

- The components are critical, high-performance parts, designed to withstand corrosive saltwater environments and extreme mechanical stress.
- To ensure total system compatibility and maintain OEM hydraulic efficiency standards, the units must adhere to precise m nting tolerances to match existing shipboard interfaces.
- Construction must utilize corrosion-resi tant materials suitable for marine service; cylinder rod plating shall be chrome plated or equivalent to prevent pitting and seal failure.

06. Inspection and Acceptance

- Contractor shall conduct a Quality Assurance (QA) final measurement of stroke length, bore and mounting d mensions as directed by the Technical Lead (TL).
- Contractor shall pr vide 24-hour notice prior to final inspection to the TL.
- Acceptan e shall be onsidered complete and successful upon correction of all deficienci s found during this inspection and verification of leak-free operation at rat d ressure.

07. Delivery Information

Monday through Thursday (08:00 – 15:00 PT)
Attn: Dredge Yaquina
8010 NW St Helens Road
Portland, OR 97210

08. Points of Contact

- **a. TL/Delivery:** [redacted]
- **b. Contracting Officer:** Ian Lutjens – Ian.K.Lutjens@usace.army.mil

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09. Invoice Submittal

Upon satisfactory completion of delivery, please submit an electronic PDF invoice to USACE Millington (the USACE Finance Center) via email address:

cefc-g2invoices@usace.army.mil;

The following shall be CC'd on the invoice submittal emails:

[redacted]

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