

INVITATION TO BID (ITB) NUMBER

220000012

RETURN THIS BID TO THE ISSUING OFFICE AT:



Alaska Department of Fish and Game
Division of Administrative Services
Procurement Office
PO Box 115526
1255 West 8th St
Juneau, AK 99801

THIS IS NOT AN ORDER

DATE ITB ISSUED: 8/27/2021

ITB TITLE: R/V Kestrel Shipyard Services

SEALED BIDS MUST BE SUBMITTED TO THE ABOVE ADDRESS AND MUST BE TIME AND DATE STAMPED BY THE PURCHASING SECTION PRIOR TO 1:30 PM ON 9/17/2021, AT WHICH TIME THEY WILL BE PUBLICLY OPENED.

DELIVERY DATE: See Text

IMPORTANT NOTICE: If you received this solicitation from the State's "Online Public Notice" web site, you must register with the Procurement Officer listed on this document to receive notification of subsequent amendments. Failure to contact the Procurement Officer may result in the rejection of your offer.

BIDDER'S NOTICE: By signature on this form, the bidder certifies that:

(1) **The bidder has a valid Alaska business license, or will obtain one prior to award of any contract resulting from this ITB.** If the bidder possesses a valid Alaska business license, the license number must be written below or one of the following forms of evidence must be submitted with the bid:

- a canceled check for the business license fee;
 - a copy of the business license application with a receipt date stamp from the State's business license office;
 - a receipt from the State's business license office for the license fee;
 - a copy of the bidder's valid business license;
 - a sworn notarized affidavit that the bidder has applied and paid for a business license;
- (2) the price(s) submitted was arrived at independently and without collusion and that the bidder is complying with:
- the laws of the State of Alaska;
 - the applicable portion of the Federal Civil Rights Act of 1964;
 - the Equal Employment Opportunity Act and the regulations issued thereunder by the State and Federal Government; and
 - all terms and conditions set out in this Invitation to Bid (ITB).

If a bidder fails to comply with (1) at the time designated in the ITB for opening the state will disallow the Alaska Bidder Preference. If a bidder fails to comply with (2) of this paragraph, the state may reject the bid, terminate the contract, or consider the contractor in default. Bids must be also submitted under the name as appearing on the bidder's current Alaska business license in order to receive the Alaska Bidder Preference.

Dave Mitchell	_____	*DOES YOUR BUSINESS QUALIFY FOR THE ALASKA BIDDER PREFERENCE?
Procurement Specialist IV	COMPANY SUBMITTING BID	[] YES [] NO
(907) 465-4131 P	_____	*DOES YOUR BUSINESS QUALIFY FOR THE ALASKA VETERAN PREFERENCE?
(907) 465-6181 F	AUTHORIZED SIGNATURE	[] YES [] NO
dave.mitchell@alaska.gov	_____	*SEE ITB FOR EXPLANATION OF CRITERIA TO QUALIFY
	PRINTED NAME	

	DATE	_____
		E-MAIL ADDRESS
_____	_____	_____
ALASKA BUSINESS LICENSE NUMBER	FEDERAL TAX ID NUMBER	TELEPHONE NUMBER

INSTRUCTIONS TO BIDDERS:

1. INVITATION TO BID (ITB) REVIEW: Bidders shall carefully review this ITB for defects and questionable or objectionable material. Bidders' comments concerning defects and questionable or objectionable material in the ITB must be made in writing and received by the purchasing authority at least ten (10) days before the bid opening date. This will allow time for an amendment to be issued if one is required. It will also help prevent the opening of a defective bid, upon which award cannot be made, and the resultant exposure of bidders' prices. Bidders' original comments should be sent to the purchasing authority listed on the front of this ITB.

2. BID FORMS: Bidders shall use this and attached forms in submitting bids. A photocopied bid may be submitted.

3. SUBMITTING BIDS: Envelopes containing bids must be sealed, marked, and addressed as shown in the example below. Do not put the ITB number and opening date on the envelope of a request for bid information. Envelopes with ITB numbers annotated on the outside will not be opened until the scheduled date and time.

Bidder's Return Address

Alaska Department of Fish and Game
Division of Administrative Services
Procurement Office
PO Box 115526
1255 West 8th St
Juneau, AK 99801

ITB No.: 220000012

Opening Date: 9/17/2021

ELECTRONIC BID SUBMISSION: Bids may be emailed to dfg.contracting@alaska.gov, no later than the date and time listed on page one of this ITB as the deadline for receipt of bids and must contain the ITB number in the subject line of the email. Emailed bids must be submitted as an attachment in PDF format. The entire bid, including all amendments, must be received no later than the deadline for receipt of bids. It is the bidder's responsibility to contact the issuing office at (907)465-4131 to confirm that the entire bid has been received. Failure to follow the above instructions may result in the bid being found non-responsive and rejected.

4. PRICES: The bidder shall state prices in the units of issue on this ITB. Prices quoted for commodities must be in U.S. funds and include applicable federal duty, brokerage fees, packaging, and transportation cost to the FOB point so that upon transfer of title the commodity can be utilized without further cost. Prices quoted for services must be quoted in U.S. funds and include applicable federal duty, brokerage fee, packaging, and transportation cost so that the services can be provided without further cost. Prices quoted in bids must be exclusive of federal, state, and local taxes. If the bidder believes that certain taxes are payable by the State, the bidder may list such taxes separately, directly below the bid price for the affected item. The State is exempt from Federal Excise Tax except the following:

- Coal - Internal Revenue Code of 1986 (IRC), Section 4121 - on the purchase of coal;
- "Gas Guzzler" - IRC, Section 4064 - on the purchase of low m.p.g. automobiles, except that police and other emergency type vehicles are not subject to the tax;
- Air Cargo - IRC, Section 4271 - on the purchase of property transportation services by air;
- Air Passenger - IRC, Section 4261 - on the purchase of passenger transportation services by air carriers.
- Leaking Underground Storage Tank Trust Fund Tax (LUST) - IRC, Section 4081 - on the purchase of Aviation gasoline, Diesel Fuel, Gasoline, and Kerosene.

5. VENDOR TAX ID NUMBER: If goods or services procured through this ITB are of a type that is required to be included on a Miscellaneous Tax Statement, as described in the Internal Revenue Code, a valid tax identification number must be provided to the State of Alaska before payment will be made.

6. FILING A PROTEST: A bidder may protest the award of a contract or the proposed award of a contract for supplies, services, or professional services. The protest must be filed in writing and include the following information: (1) the name, address, and telephone number of the protester; (2) the signature of the protester or the protester's representative; (3) identification of the contracting agency and the solicitation or contract at issue; (4) a detailed statement of the legal and factual grounds of the protest, including copies of relevant documents; and (5) the form of relief requested. Protests will be treated in accordance with Alaska Statutes (AS) 36.30.560-36.30.610.

CONDITIONS

AUTHORITY: This ITB is written in accordance with AS 36.30 and 2 AAC 12.

- 1. COMPLIANCE:** In the performance of a contract that results from this ITB, the contractor must comply with all applicable federal, state, and borough regulations, codes, and laws; and be liable for all required insurance, licenses, permits and bonds; and pay all applicable federal, state, and borough taxes.
- 2. SUITABLE MATERIALS, ETC.:** Unless otherwise specified, all materials, supplies or equipment offered by a bidder shall be new, unused, and of the latest edition, version, model or crop and of recent manufacture.
- 3. SPECIFICATIONS:** Unless otherwise specified in the ITB, product brand names or model numbers specified in this ITB are examples of the type and quality of product required and are not statements of preference. If the specifications describing an item conflict with a brand name or model number describing the item, the specifications govern. Reference to brand name or number does not preclude an offer of a comparable or better product, if full specifications and descriptive literature are provided for the product. Failure to provide such specifications and descriptive literature may be cause for rejection of the offer.
- 4. FIRM OFFER:** For the purpose of award, offers made in accordance with this ITB must be good and firm for a period of ninety (90) days from the date of bid opening.
- 5. EXTENSION OF PRICES:** In case of error in the extension of prices in the bid, the unit prices will govern; in a lot bid, the lot prices will govern.
- 6. BID PREPARATION COSTS:** The State is not liable for any costs incurred by the bidder in bid preparation.
- 7. CONSOLIDATION OF AWARDS:** Due to high administrative costs associated with processing of purchase orders, a single low bid of \$50 or less may, at the discretion of the State, be awarded to the next low bidder receiving other awards for consolidation purposes. This paragraph is not subject to the protest terms enumerated in "INSTRUCTION TO BIDDERS", "FILING A PROTEST" above.
- 8. CONTRACT FUNDING:** Bidders are advised that funds are available for the initial purchase and/or the first term of the contract. Payment and performance obligations for succeeding purchases and/or additional terms of the contract are subject to the availability and appropriation of funds.
- 9. CONFLICT OF INTEREST:** An officer or employee of the State of Alaska may not seek to acquire, be a party to, or possess a financial interest in, this contract if (1) the officer or employee is an employee of the administrative unit that supervises the award of this contract; or (2) the officer or employee has the power to take or withhold official action so as to affect the award or execution of the contract.
- 10. ASSIGNMENT(S):** Assignment of rights, duties, or payments under a contract resulting from this ITB is not permitted unless authorized in writing by the State of Alaska, Department of Administration, Division of General Services. Bids that are conditioned upon the State's approval of an assignment will be rejected as nonresponsive.
- 11. SUBCONTRACTOR(S):** Within five (5) working days of notice from the state, the apparent low bidder must submit a list of the subcontractors that will be used in the performance of the contract. The list must include the name of each subcontractor and the location of the place of business for each subcontractor and evidence of each subcontractor's valid Alaska business license.
- 12. FORCE MAJEURE (Impossibility to perform):** The contractor is not liable for the consequences of any failure to perform, or default in performing, any of its obligations under this Agreement, if that failure or default is caused by any unforeseeable Force Majeure, beyond the control of, and without the fault or negligence of, the contractor. For the purposes of this Agreement, Force Majeure will mean war (whether declared or not); revolution; invasion; insurrection; riot; civil commotion; sabotage; military or usurped power; lightning; explosion; fire; storm; drought; flood; earthquake; epidemic; quarantine; strikes; acts or restraints of governmental authorities affecting the project or directly or indirectly prohibiting or restricting the furnishing or use of materials or labor required; inability to secure materials, machinery, equipment or labor because of priority, allocation or other regulations of any governmental authorities.
- 13. LATE BIDS:** Late bids are bids received after the time and date set for receipt of the bids. Late bids will not be accepted.
- 14. CONTRACT EXTENSION:** Unless otherwise provided in this ITB, the State and the successful bidder/contractor agree: (1) that any holding over of the contract excluding any exercised renewal options, will be considered as a month-to-month extension, and all other terms and conditions shall remain in full force and effect and (2) to provide written notice to the other party of the intent to cancel such month-to-month extension at least thirty (30) days before the desired date of cancellation.
- 15. DEFAULT:** In case of default by the contractor, for any reason whatsoever, the State of Alaska may procure the goods or services from another source and hold the contractor responsible for any resulting excess cost and may seek other remedies under law or equity.
- 16. DISPUTES:** Any dispute arising out of this agreement shall be resolved under the laws of Alaska. Any appeal of an administrative order or any original action to enforce any provision of this agreement or to obtain any relief from or remedy in connection with this agreement may be brought only in the superior court for the State of Alaska.
- 17. CONSUMER ELECTRICAL PRODUCT:** AS 45.45.910 requires that "...a person may not sell, offer to sell, or otherwise transfer in the course of the person's business a consumer electrical product that is manufactured after August 14, 1990, unless the product is clearly marked as being listed by an approved third party certification program." Electrical consumer products manufactured before August 14, 1990, must either be clearly marked as being third party certified or be marked with a warning label that complies with AS 45.45.910(e). Even exempted electrical products must be marked with the warning label. By signature on this bid the bidder certifies that the product offered is in compliance with the law. A list of approved third party certifiers, warning labels and additional information is available from: Department of Labor and Workforce Development, Labor Standards & Safety Division, Mechanical Inspection Section, P.O. Box 107020, Anchorage, Alaska 99510-7020, (907)269-4925.
- 18. SEVERABILITY:** If any provision of the contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions will not be affected; and, the rights and obligations of the parties will be construed and enforced as if the contract did not contain the particular provision held to be invalid.

SPECIAL CONDITIONS:

- 1. ORDER DOCUMENTS:** Except as specifically allowed under this ITB, an ordering agency will not sign any vendor contract. The State is not bound by a vendor contract signed by a person who is not specifically authorized to sign for the State under this ITB. The State of Alaska Purchase Order, Contract Award and Delivery Order are the only order documents that may be used to place orders against the contract(s) resulting from this ITB.
- 2. BILLING INSTRUCTIONS:** Invoices must be billed to the ordering agency's address shown on the individual Purchase Order, Contract Award or Delivery Order, not to the Division of General Services. The ordering agency will make payment after it receives the merchandise or service and the invoice. Questions concerning payment must be addressed to the ordering agency.
- 3. CONTINUING OBLIGATION OF CONTRACTOR:** Notwithstanding the expiration date of a contract resulting from this ITB, the contractor is obligated to fulfill its responsibilities until warranty, guarantee, maintenance and parts availability requirements have completely expired.

PREFERENCES:

- 1. ALASKA BIDDER PREFERENCE:** Award will be made to the lowest responsive and responsible bidder after an Alaska bidder preference of five percent (5%) has been applied. The preference will be given to a person who: (1) holds a current Alaska business license at the time designated in the invitation to bid for bid opening; (2) submits a bid for goods or services under the name on the Alaska business license; (3) has maintained a place of business within the state staffed by the bidder, or an employee of the bidder, for a period of six months immediately preceding the date of the bid; (4) is incorporated or qualified to do business under the laws of the state, is a sole proprietorship and the proprietor is a resident of the state, is a limited liability company organized under AS 10.50 and all members are residents of the state, or is a partnership under AS 32.06 or AS 32.11 and all partners are residents of the state; and, (5) if a joint venture, is composed entirely of ventures that qualify under (1) - (4) of this subsection. AS 36.30.170, AS 36.30.321(a) and AS 36.30.990[25]
- 2. ALASKA VETERAN PREFERENCE:** If a bidder qualifies for the Alaska bidder preference under AS 36.30.321(a) and AS 36.30.990[25] and is a qualifying entity as defined in AS 36.30.321(f), they will be awarded an Alaska veteran preference of five percent (5%). The preference will be given to a (1) sole proprietorship owned by an Alaska veteran; (2) partnership under AS 32.06 or AS 32.11 if a majority of the partners are Alaska veterans; (3) limited liability company organized under AS 10.50 if a majority of the members are Alaska veterans; or (4) corporation that is wholly owned by individuals and a majority of the individuals are Alaska veterans, and may not exceed \$5,000. The bidder must also add value by actually performing, controlling, managing, and supervising the services provided, or for supplies, the bidder must have sold supplies of the general nature solicited to other state agencies, other governments, or the general public - AS 36.30.321(i).
- 3. USE OF LOCAL FOREST PRODUCTS:** In a project financed by state money in which the use of timber, lumber and manufactured lumber is required, only timber, lumber and manufactured lumber products originating in this state from Alaska forests shall be used unless the use of those products has been determined to be impractical, in accordance with AS 36.15.010 and AS 36.30.322.
- 4. LOCAL AGRICULTURAL AND FISHERIES PRODUCTS PREFERENCE:** When agricultural, dairy, timber, lumber, or fisheries products are purchased using state money, a seven percent (7%) preference shall be applied to the price of the products harvested in Alaska, or in the case of fisheries products, the products harvested or processed within the jurisdiction of Alaska, in accordance with AS 36.15.050.
- 5. ALASKA PRODUCT PREFERENCE:** A bidder that designates the use of an Alaska Product which meets the requirements of the ITB specification and is designated as a Class I, Class II or Class III Alaska Product by the Department of Community & Economic Development shall receive a preference in the bid evaluation in accordance with AS 36.30.332 and 3 AAC 92.010.
- 6. EMPLOYMENT PROGRAM PREFERENCE:** If a bidder qualifies for the Alaska bidder preference under AS 36.30.321(a) and AS 36.30.990[25], and is offering goods or services through an employment program as defined under 36.30.990(11), they will be awarded an Employment Program Preference of fifteen percent (15%) in accordance with AS 36.30.321(b).
- 7. ALASKANS WITH DISABILITIES PREFERENCE:** If a bidder qualifies for the Alaska bidder preference under AS 36.30.321(a) and AS 36.30.990[25], and is a qualifying entity as defined in AS 36.30.321(d), they will be awarded an Alaskans with Disabilities Preference of ten percent (10%) in accordance with AS 36.30.321(d). A bidder may not receive both an Employment Program Preference and an Alaskans with Disabilities Preference.
- 8. PREFERENCE QUALIFICATION LETTER:** Regarding preferences 6 and 7 above, the Division of Vocational Rehabilitation in the Department of Labor and Workforce Development maintains lists of Alaskan; [1] employment programs that qualify for preference, and [2] individuals who qualify for preference as Alaskan's with disabilities. In accordance with AS 36.30.321(i), in order to qualify for one of these preferences, a bidder must add value by actually performing, controlling, managing, and supervising the services provided, or for supplies, a bidder must have sold supplies of the general nature solicited to other state agencies, governments, or the general public.

As evidence of an individual's or a business' right to a certain preference, the Division of Vocational Rehabilitation will issue a certification letter. To take advantage of the preferences 6 or 7 above, an individual or business must be on the appropriate Division of Vocational Rehabilitation list at the time the bid is opened, and must attach a copy of their certification letter to their bid. The bidder's failure to provide this certification letter with their bid will cause the State to disallow the preference.

ALASKA BUSINESS LICENSE AND OTHER REQUIRED LICENSES: Prior to the award of a contract, a bidder must hold a valid Alaska business license. However, in order to receive the Alaska Bidder Preference and other related preferences, such as the Alaska Veteran and Alaskans with Disabilities Preference; a bidder must hold a valid Alaska business license at the time designated for bid opening. Bidders should contact the Department of Commerce, Community and Economic Development, Division of Corporations, Business, and Professional Licensing, P. O. Box 110806, Juneau, Alaska 99811-0806, for information on these licenses.

Acceptable evidence that the bidder possesses a valid Alaska business license may consist of any one of the following:

- (a) copy of an Alaska business license;
- (b) certification on the bid that the bidder has a valid Alaska business license and has included the license number in the bid (see front page);
- (c) a canceled check for the Alaska business license fee;
- (d) a copy of the Alaska business license application with a receipt stamp from the state's occupational licensing office; or
- (e) a sworn and notarized affidavit that the bidder has applied and paid for the Alaska business license.

You are not required to hold a valid Alaska business license at the time bids are opened if you possess one of the following licenses and are offering services or supplies under that specific line of business:

- fisheries business licenses issued by Alaska Department of Revenue or Alaska Department of Fish and Game,
- liquor licenses issued by Alaska Department of Revenue for alcohol sales only,
- insurance licenses issued by Alaska Department of Commerce, Community and Economic Development, Division of Insurance, or
- Mining licenses issued by Alaska Department of Revenue.

At the time designated for bid opening, all bidders must hold any other necessary applicable professional licenses required by Alaska Statute.

ALASKA BIDDER PREFERENCE: An Alaska Bidder Preference of five percent will be applied prior to evaluation. The preference will be given to a bidder who:

- (1) Holds a current Alaska business license at the time designated for bid opening;
- (2) Submits a proposal for goods or services under the name appearing on the bidder's current Alaska business license;
- (3) Has maintained a place of business within the state staffed by the bidder, or an employee of the bidder, for a period of six months immediately preceding the date of the bid;
- (4) Is incorporated or qualified to do business under the laws of the state, is a sole proprietorship and the proprietor is a resident of the state, is a limited liability company (LLC) organized under AS 10.50 and all members are residents of the state, or is a partnership under AS 32.06 or AS 32.11 and all partners are residents of the state; and
- (5) If a joint venture, is composed entirely of ventures that qualify under (1)-(4) of this subsection.

ALASKA BIDDER PREFERENCE AFFIDAVIT

In order to receive the Alaska Bidder Preference, the bid must also include a statement certifying that the bidder is eligible to receive the Alaska Bidder Preference.

If the bidder is a LLC or partnership as identified in (4) of this subsection, the affidavit must also identify each member or partner and include a statement certifying that all members or partners are residents of the state.

If the bidder is a joint venture which includes a LLC or partnership as identified in (4) of this subsection, the affidavit must also identify each member or partner of each LLC or partnership that is included in the joint venture and include a statement certifying that all of those members or partners are residents of the state.

BIDDERS WITH DISABILITIES: The State of Alaska complies with Title II of the Americans with Disabilities Act of 1990. Individuals with disabilities who may need auxiliary aids, services, and/or special modifications to participate in this procurement should contact the Contracting Officer one of the following numbers no later than 10 days prior to bid opening to make any necessary arrangements.

Telephone: (907) 465-4131

Fax: (907) 465-6181

TDD: (907) 465-3646

COMPLIANCE WITH ADA: By signature of their bid the bidder certifies that they comply with the Americans with Disabilities Act of 1990 and the regulations issued thereunder by the federal government.

Services or activities furnished to the general public on behalf of the state must be fully accessible. This is intended to ensure that agencies are in accordance with 28 CFR Part 35 Section 35.130 and that services, programs or activities furnished to the public through a contract do not subject qualified individuals with a disability to discrimination based on the disability.

PREFERENCE QUALIFICATION: In order to qualify for an Alaska Veterans Preference, Employment Program Preference, or Alaskans with Disabilities Preference, a bidder must add value by actually performing; controlling, managing, and supervising the services provided, or a bidder must have sold supplies of the general nature solicited to other state agencies, governments, or the general public.

CONTRACT PERFORMANCE LOCATION: By signature on their bid, the bidder certifies that all services provided under this contract by the contractor and all subcontractors shall be performed in the United States.

If the bidder cannot certify that all work will be performed in the United States, the bidder must contact the procurement officer in writing to request a waiver at least 10 days prior to the deadline for receipt of bids.

The request must include a detailed description of the portion of work that will be performed outside the United States, where, by whom, and the reason the waiver is necessary.

Failure to comply with these requirements may cause the state to reject the bid as non-responsive or cancel the contract.

HUMAN TRAFFICKING: By signature on their bid, the bidder certifies that the bidder is not established and headquartered or incorporated and headquartered in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report.

The most recent United States Department of State's Trafficking in Persons Report can be found at the following website: <http://www.state.gov/g/tip/>

Failure to comply with this requirement will cause the state to reject the bid as non-responsive, or cancel the contract

NOTICE OF INTENT TO AWARD: After the responses to this ITB have been opened and evaluated, a tabulation of the bids will be prepared. This tabulation, called a Notice of Intent to Award, serves two purposes. It lists the name of each company or person that offered a bid and the price they bid. It also provides notice of the state's intent to award a contract(s) to the bidder(s) indicated. A copy of the Notice of Intent will be mailed to each company or person who responded to the ITB. Bidders identified as the apparent low responsive bidders are instructed not to proceed until a Purchase Order, Contract Award, Lease, or some other form of written notice is given by the contracting officer. A company or person who proceeds prior to receiving a Purchase Order, Contract Award, Lease, or some other form of written notice from the contracting officer does so without a contract and at their own risk.

PAYMENT FOR STATE PURCHASES: Payment for agreements under \$500,000 for the undisputed purchase of goods or services provided to a state agency, will be made within 30 days of the receipt of a proper billing or the delivery of the goods or services to the location(s) specified in the agreement, whichever is later. A late payment is subject to 1.5% interest per month on the unpaid balance. Interest will not be paid if there is a dispute or if there is an agreement that establishes a lower interest rate or precludes the charging of interest.

SHIPPING DAMAGE: The state will not accept or pay for damaged goods. The contractor must file all claims against the carrier(s) for damages incurred to items in transit from the point of origin to the ultimate destination. The state will provide the contractor with written notice when damaged goods are received. The state will deduct the cost of the damaged goods from the invoice prior to payment. The contractor must file all claims against the carrier(s) for reimbursement of the loss.

INDEMNIFICATION: The contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the contractor under this agreement. The contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the contractor and in approving or accepting the contractor's work.

INSURANCE: Without limiting contractor's indemnification, it is agreed that contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the contracting officer prior to beginning work and must provide for a notice of cancellation, non-renewal, or material change of conditions in accordance with policy provisions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the contractor's services. All insurance policies shall comply with and be issued by insurers licensed to transact the business of insurance under AS 21.

Proof of insurance is required for the following:

Workers' Compensation Insurance: The contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the state.

Commercial General Liability Insurance: covering all business premises and operations used by the contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

Commercial Automobile Liability Insurance: covering all vehicles used by the contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

Failure to supply satisfactory proof of insurance within the time required will cause the state to declare the bidder non-responsive and to reject the bid.

FIRM, UNQUALIFIED AND UNCONDITIONAL OFFER: Bidders must provide enough information with their bid to constitute a definite, firm, unqualified and unconditional offer. To be responsive a bid must constitute a definite, firm, unqualified and unconditional offer to meet all of the material terms of the ITB. Material terms are those that could affect the price, quantity, quality, or delivery. Also included as material terms are those which are clearly identified in the ITB and which, for reasons of policy, must be complied with at risk of bid rejection for non-responsiveness.

ALTERATIONS: The contractor must obtain the written approval from the contracting officer prior to making any alterations to the specifications contained in this ITB. The state will not pay for alterations that are not approved in advance and in writing by the contracting officer.

PARTS BOOKS AND MAINTENANCE MANUALS: Parts books and maintenance manuals must be provided at the same time that the equipment is delivered. The cost of the parts books and maintenance manuals is to be included in the bid price of the equipment.

WORKMANSHIP & MATERIALS: All work must be performed in a thorough and workmanlike manner and in accordance with current industry practices. The contractor will be held responsible for the quality of the service, maintenance, and inspections. Service, maintenance, and inspections that are improperly done will be done over, by the contractor, at the contractor's risk and expense.

METHOD OF AWARD: Award will be made as one lot to the lowest responsive and responsible bidder. In order to be considered responsive, bidders must bid on all items.

LOCATION OF WORK: The R/V Kestrel is homeported in Petersburg, Alaska. Given that the services being requested in this ITB are unavailable in Petersburg, it is understood that the vessel will be required to leave Petersburg to in order to complete the project. With the unpredictable weather in the Gulf of Alaska during wintertime, the vessel is unable to travel north of Southeast Alaska for this project. All proposed locations of work must be south of Petersburg. Bids requiring the vessel to travel north of Petersburg will be deemed non-responsive.

BIDDER QUALIFICATIONS: The State intends to contract directly with a full-service shipyard facility to complete the project. Bids which offer other arrangements or brokerage services through a 3rd party shall be rejected as non-responsive.

ITB 220000012
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Attachments and References

- A) RV Kestrel Paint and Preparation Specifications
- B) Docking Plan Drawing (039-055) Allied Ship Builders LTD,
- C) Docking Plan Drawings Seaspan
- D) Through Hull Valve Schedule
- E) Engine Cooling Schematic Drawing Number 039-202
- F) Bilge, Ballast, and Fire Schematic Drawing 039-200
- G) Machinery Arrangement Drawing 039-319
- H) Focsle & Wheelhouse Gen Arrangement Drawing Number 039-003
- I) Deckhouse Structure (039-106) Sheet 1 of 2
- J) Deckhouse Structure (039-107) Sheet 2 of 2
- K) Funnel Structure Drawing Number 039-135

- L) Engine, Gear and Shafting Arrangement Drawing Number 039-300
- M) Shafting Arrangement Drawing (039-302)
- N) Structural Sections Aft Drawing Number 039-102
- O) Structural Sections Forward Sheet 1 of 2 Drawing Number 039-103
- P) Structural Sections Forward Sheet 2 of 2 Drawing Number 039-104
- Q) Fuel Oil Schematic Drawing Number 039-201
- R) WASSP 160KHZ Transducer Installation
- S) Transducer Housing Arrangement Drawing Number 039-129
- T) Steering Control Drawing Number 039-590-104
- U) Steering Piping Schematic Drawing Number 039-212
- V) Steering Pump Motor Control Drawing Number 039-537
- W) Command Transfer & Shaft Metering Drawing 039-531
- X) Switchboard Single Line Schematic Drawing Number 09-502
- Y) Engine Room Transverse Views (921-321)
- Z) Photos of Vessel

GENERAL TERMS AND CONDITIONS

The following specifications and Work Items, together with attached photos and drawings, are intended to enable qualified shipyards to properly bid the specified work. See the Vessel Description Section for specifications regarding the *R/V Kestrel*.

Work Standards

All work is to be performed by qualified journeymen. Bidders are presumed to warranty that all work will be of sufficiently high quality to meet standards of the American Bureau of Shipping or other recognized classification societies. Owner Representative will inspect all work items for approval upon completion. The Owner Representative may, at their sole discretion, obtain ABS inspections for any Work Item(s).

Work Scope

The Contractor shall supply all necessary manpower, labor, supervision, expendable supplies, materials, equipment, and expertise necessary to successfully and safely perform the work defined in each of the Work Items. The Contractor's responsibility shall include mobilization, all necessary environmental and personnel safeguards, and cleanup of the site (leaving the vessel in better shape than before the work). During the work period, the Contractor shall allow for the Owner and regulatory agencies to inspect all work, without claiming for delay or impact.

The Contractor shall provide all necessary services to complete all items as set forth in the specifications. These services include but are not limited to: all necessary rolling stock including cranes, man-lifts, fork-lifts, trucks; all necessary staging, ventilation, and lighting; all necessary power and hand tools including expendable supplies for such tools, all necessary safety equipment and testing including maintaining safe for entry certificates(Confined Space), and all environmental equipment, testing, and safeguards.

Work Schedule

Prior to starting work on this Contract, the Contractor shall supply the Owner Representative a brief schedule showing when the Contractor intends to complete all work Items and when the vessel shall go on and off the dock. Overtime work shall not be scheduled for work Items. If the Contractor modifies this schedule for their own purpose, they shall credit the Owner for the cost of any impacts caused by the delay.

Bid Submittal

All bids' prices are to include materials, labor, overhead, taxes, costs for disposals, and any other costs associated with this work. All bids, invoices, and any discussions during the work period including change orders will be in U.S. Dollars. Bids are to be itemized, at least to the level of one price for each Work Item, as described below. Contractor is to itemize and submit Bid Prices on the attached Work Item Bid Schedule sheet (In U.S. Dollars) . The Owner (State of Alaska, Department of Fish and Game) estimates that there is sufficient funding to accomplish all the listed work but reserves the right to delete any Work Item or Items should funding be insufficient for all quoted work, or at State's sole option work may be deleted for any reason. Bids may be either Flat Rate per Work Item or may be submitted as Not-to-Exceed figures.

For each Item, bidders should specify which method is being used.

Security

It is understood that the selected bidder will be responsible for any damage to the vessel, direct or collateral, that may occur pursuant to this work. Contractor shall have care, custody, and control of the vessel throughout the contract performance period. Vessel security shall be provided to protect the vessel from damage, fire, theft or vandalism.

Force Majeure

It is agreed that *force majeure* (an unexpected or uncontrollable event) specifically excludes rain, snow, temperatures between 20 degrees F. and 90 degrees F., and winds less than 50 knots.

Inter-Port Differential

For the purposes of evaluating the Bid Proposals, the Owner will consider the differences in all roundtrip vessel operational costs from Petersburg, Alaska to the responding Bidder's locations. This shall be factored into each Bid Proposal total amount. The Inter-Port Differential shall be calculated in accordance with Alaska Statute. For this bid operational cost are \$23.86 per mile, travel cost based on each bidder's location will be calculated and added during bid evaluation.

Pre-Bid Vessel Inspection & Owner Representative Contact

Prospective bidders may contact the Department of Fish and Game at dave.mitchell@alaska.gov to schedule an inspection the R/V Kestrel at its homeport of Petersburg, Alaska, prior to the submittal of their bid. (At the bidders' expense)

For Technical questions regarding the vessel, specific Work Items described herein including bidding questions or Contracting Procedures related to the ADF&G R/V Kestrel ITB # 220000012 Email: dave.mitchell@alaska.gov

Change Orders

Should change orders become necessary, Bidder agrees that any such order shall be in writing, in US Dollars, signed by both parties, and that any quote for such an order shall be inclusive as above, and will include any fees for delay and disruption. No work on change orders shall commence unless approved by Owner Representative.

Period of Performance

Work can be scheduled to begin between November 1, 2021, and January 31, 2022. Forty-Five (45) calendar days will be allowed for completion after the start date is determined. (With a final completion date of no later than January 31, 2022. Due to the adverse impact on the vessel schedule, liquidated damages shall accrue at the rate of \$2,500.00 per day after either 45 days or January 31, 2022, whichever comes first. In the event of the issuance of change orders, any alteration of this schedule shall be designated in the change order and approved by Owner Representative.

Specific delivery date of the vessel shall be agreed upon prior to contract award. The State agrees to make a good faith effort to arrive prior to the agreed upon date but shall be held harmless for delays beyond the State's control.

Invoice

The Contractor agrees to provide Owner Representative two (2) copies of a Progress Review Invoice prior to the vessel's departure from the shipyard. The Progress Review Invoice shall be formatted per the outline of the Work Item Bid Schedule.

Hazardous Materials and Confined Space Work:

It should be anticipated that due to the nature of this project there will be hazardous materials to be disposed of. The State will not be responsible for any costs associated with the collection or disposal of any hazardous materials generated by this project.

It should be anticipated that due to the nature of this project there will be work in confined spaces. The State will not be responsible for any additional cost associated with this confined space work.

R/V Kestrel Vessel Description / Particulars

The Research Vessel (R/V) Kestrel is all welded steel construction, with two diesel engine / two Hundested gear units turning shafts and variable pitch propellers on each end. The vessel is owned and operated by The State of Alaska and is intended to be engaged in the support of scientific research within Southeast Alaska. It is versatile and adaptable to accommodate a wide variety of deck equipment and machinery in the various configurations required to support the research.

Official Number:	811822
Vessel Name:	<i>R/V Kestrel</i>
Dimensions:	
Length Overall	32.3m 105.7'
Length Waterline	29.7m – 97.5'
Breadth Moulded	8m - 26'3"
Depth Moulded	3.5m – 11'6"
Design Draft Mean	2.3m - 7'6"
Displacement @ 2.3m Draft	326.57 Tonnes – 321.31 Long Tons
Registered Tonnage	76.24
Main Engines	2 @ 322 HP – 644 HP total
Generator Capacity	2 @ 95KW – 190KW Total
Speed	11.5 Knot
Builder	Allied Shipbuilders, 1990
Area of Operation	Southeast Alaska-

Invitation to Bid 220000012 RV Kestrel Shipyard

Work Item Details

The Contractor shall provide a fixed cost for all labor, materials, and equipment to accomplish each of the following work items:

1. DRY-DOCKING.

References

- B Docking Plan Drawing (039-055) Allied Ship Builders LTD,
- C Docking Plan Drawing Seaspan

1.1 Dry-Docking

The Contractor shall provide a fixed cost for all labor, material and equipment, for dry-docking and un-docking the vessel to accomplish all work described herein. The Contractor is responsible for all docking, un-docking, and mooring activities. The vessel shall be docked or lifted in accordance with the attached Docking Plan(s).

A dry-dock meeting shall take place prior to the vessel being dry-docked. At this time the Dock-Master will present his blocking plan, pressure calculations, describe his plan for docking the vessel to include schedule of events for, rough weather, the use of engines, tugs, communication with ADF&G, and other relevant items. The Contractor shall notify the Owner Representative a minimum of 48 hours prior to dry-docking and un-docking the vessel. The Contractor shall not initiate docking activities without the express permission of the Owner Representative.

Provide a gangway for access from the dry-dock to the vessel's main deck with safety netting and lighting as well as adequate shore power while both in drydock and berthed.

Provide a safe lay berth at the Contractor's facility throughout the contract performance period. Contractor to ensure suitable mooring lines are available and tended while the vessel is pier-side and that all necessary safety precautions are taken.

2. SCRAPE & POWER WASH, HULL AND SEA CHEST.

The Contractor shall provide a fixed cost for all labor, material, and equipment to scrape, and pressure wash the entire exterior of the vessel from keel to the top of the wheelhouse using fresh water and no less than 3000psi, remove marine growth and dilapidated or failing coatings (hand scrape as needed) to include the inside of the sea chest, sea chest grates and sonar tube. Please note protection of exposed ends of the stern tube, sonar tube, fathometer transducer, and other sensitive areas is required. Proper disposal of all wastewater, particulates and residues is the contractor's responsibility.

3. SEA CHEST, VALVES AND STRAINER.

References

- **D** Through Hull Valve Schedule
- **E** Engine Cooling Schematic Drawing Number 039-202
- **F** Bilge, Ballast, and Fire Schematic Drawing 039-200
- **G** Machinery Arrangement Drawing 039-319

3.1 Sea Chest and Sea Chest Valves

Open and mechanically clean the two sea chests and strainer grates. Overhaul both main sea chest valves. (4" bronze S.D.N.R. angle valve)

3.2 Through Hull Valves

Inspect and service all Through Hull valves.

3.3 Bilge and Ballast Manifold Valves

Inspect and service all butterfly, globe, and angle valves on forward bilge manifold, fire pump manifold, bilge & general service pump manifold, aft ballast manifold, and aft bilge manifold.

4. ZINCS.

Remove inspect and/or replace all anodes and issue a written report to the Owner Representative identifying zincs that are reduced more than 50%. Owner Representative will make final determination of hull zincs to be replaced.

Contractor shall ensure zincs are firmly secured to the hull and zincs have a positive bonding connection established. Deteriorated or missing shot studs will be replaced under a separate change order. All zincs shall be masked off to prevent them from being painted.

For bid purposes, Contractor shall provide bids for replacement of ALL zincs, as indicated below. Contractor shall provide a credit on Bid Items for any zincs not requiring replacement. There are 42 zincs total. (27) - Z-22, (12) - Z-19, (2) - Z-4, and (1)- KK-2.

4.1 Install Hull Z – 22 Zincs - Contractor shall remove old zincs and install 27 new Z - 22 Hull zincs.

4.2 Install Hull Z-19 Zincs - Contractor shall remove old zincs and install 12 new Z-19 Hull zincs.

4.3 Install Sea Chest Z – 4 - Contractor shall remove old sea chest zinc and install one (1) new Z - 4 Sea Chest zinc.

4.4 Install Freezer Keel Cooler Zincs - Contractor shall remove old zinc and replace with new, one (1) KK2 Keel Cooler zinc, on the aft end of keel cooler and one (1) Z-4 zinc, on the hull, next to forward end of keel cooler.

4.5 Install Rudder Zincs - Contractor shall remove and replace with new, four (4) Z-22 Rudder zincs.

5. PAINT

Provide a fixed price for each work item. All Painting and surface preparation shall be in accordance with the attached *RV Kestrel Metal Preparation and Paint Specifications*, unless specified otherwise in the work item specifications.

5.1 KEEL TO WATERLINE, HULL ANTI-FOULANT COATING

Remove old existing marine epoxy from Airmar Transducer and replace with new ensuring epoxy is smooth and flush with Transducer and steel fairing block.

Ameron 302 dimecoat primer at 3-4 mils dry minimum, apply next over dimecoat with Ameron 240 LT (low temp) haze gray at 5-7 mils dry minimum, apply final coat with Ameron ABC3 black at 4-5 mils dry minimum.

This painting shall include the entire hull below the waterline: inside sea chests, sea chest covers, sonar tube and rudders. After completion of hull preparation and coating, Contractor shall apply Names, Draft Marks, and Hailing Port, to match existing color scheme.

5.2 FORWARD UPPER EXTERIOR DECK

Reference

- H Focslle & Wheelhouse Gen Arrangement Drawing Number 039-003
- Pictures of Wheelhouse Front

Prepare and paint the forward upper deck of the vessel. The estimated total area to be painted is approximately 1500 square feet.

Remove two 10-man life rafts with cradles, chest freezer, gas powered pressure washer, and empty plastic fish tote. All items shall be in safe and dry storage during painting and reinstalled on vessel when painting is completed.

Surface Preparation

Sandblast entire exterior upper deck up to Deta Couple to SSPC SP-10, inside rails (minus top of cap rails), six steel cleats, and all deck vents.

Surface Coating

Paint all blasted surfaces of the upper exterior deck with one coat of DIMECOTE 302 at 1.0 MDFT, one coat of Ameron 235 Battleship Grey (primer) 1.0 MDFT and two coats of Battleship Grey Amerlock 2 gf/400 gf topcoat at 5.0 MDFT and PPG 888 Anti-Skid Additive on approximately 1500 square feet of deck area. For inside rails and deta couple section of wheelhouse, forepeak hatch and winel vents, one coat of DIMECOTE 302 at 1.0 MDFT, one coat of Ameron 235 Battleship Grey (Primer) 1.0 MDFT, two coats of Battleship Grey Amerlock 2 gf/400 gf topcoat at 5.0 MDFT. Paint six cleats with one coat of DIMECOTE 302 at 1.0 MDFT, two coats of Ameron 235 Black, one coat of Black Amerlock 2 gf/400 gf topcoat at 5.0 MDFT.

5.3 WHEELHOUSE

Reference

- I Deckhouse Structure (039-106) Sheet 1 of 2
- J Deckhouse Structure (039-107) Sheet 2 of 2
- Pictures Wheelhouse-Front, Starboard Bow and Agency Lettering

Prepare and paint the wheelhouse of the vessel. The estimated total area to be painted is approximately 2,000 square feet. Entire Wheelhouse is made of Aluminum.

Surface Preparation

Sandsweep sandblast (SSPC-SP-7) approximately 2,000 square feet of wheelhouse along with window trim.

Surface Coating

Paint all blasted surfaces of wheelhouse and window trim with one coat of Ameron 235 Off White (primer) (approximately 2,000 square feet) 1.0 MDFT and two coats of Ameron Amershield White topcoat 5.0 MDFT, approximately 2,000 square feet. Repaint or vinyl sticker existing "Alaska Department of Fish and Game" agency lettering along Port and Starboard sides of Wheelhouse with Cobalt Blue and Safety Yellow.

5.4 FUNNEL STRUCTURE

Reference

- K Funnell Structure Drawing Number 039-135
- Pictures of funnel structure

Prepare and paint the Funnel Structure. The estimated total area to be painted is approximately 500 square feet.

Surface Preparation

Light Brush Off Blast (SSPC-SP-7) approximately 500 square feet of Funnel Structure. For this bid, 500 square feet (100% of all painted area) will require Sandsweep Blast SSPC7 with SP6.

Surface Coating

Paint all blasted surfaces from Deta Couple up to twelve (12) feet on Funnel Structure with one coat of Ameron 235 White (primer) (approximately 500 square feet) 1.0 MDFT and two coats of Ameron Amershield White topcoat 5.0 MDFT on approximately 375 square feet of area. Paint 2 topcoats of Amershield A0189, AM/S Neutral Tint 265-16-1552 (U.S. Paint Specs) or Amershield AM-T3/01, TW-0p23, PG-0p36, PB-9p4 (Canadian Paint Specs) Cobalt Blue (approximately 188 square feet). Paint 2 topcoats of Amershield black (approximately 188 square feet). Paint Topcoat "Alaska State Flag" over Cobalt Blue with Amershield Safety Yellow.

5.5 WATERLINE TO TOPSIDE

Reference

- Pictures of Vessel

Prepare and paint the vessel. The approximate area to be painted is 2500 square feet. The area included in this work item is the exterior hull, from the waterline up to upper rails, both port and starboard sides, and from bow to stern.

Surface Preparation

Contractor shall Sandsweep Blast SSPC7 with SP6 approximately 2500 square feet of Cobalt Blue (100% of all painted area). Sandsweep Blas SSPC7 with SP6 caprails (black and cobalt blue).

Final determination of surfaces to be prepared and painted shall be designed by the Owner Representative and are estimated to be as indicated below.

Surface Coating

Contractor shall prime any bare metal areas that have undergone the surface preparation work from waterline to topside including caprails with Ameron 302 dimecoat primer at 4 mils dry minimum, next prime over Ameron 302 with one coat of Cobalt Blue Ameron 235 (primer) at 4 mils dry minimum, apply next one coat of Amershield A0189, AM/S Neutral Tint 265-16-1552 (U.S. Paint Specs) or Amershield AM-T3/01, TW-Op23, PG-Op36, PB-9p4 (Canadian Paint Specs) Cobalt Blue on entire exterior hull from the waterline up to upper rails, both port and starboard sides, and from bow to stern (topcoat) (approximately 2500 square feet) at 5.0 MDFT each coat, one coat of Safety Yellow for boot stripe Amershield Yellow (topcoat) (approximately 80 square feet) at 5.0 mils dry minimum, one coat of Black Amershield on upper rails, guards, and one coat of Safety Yellow Ameron 229T (topcoat) for vessel name on bow and Safety Yellow Vinyl Decals for the vessel name and hailing port on stern at 4 mils dry minimum.

5.6 PAINT AFT FRESHWATER BALLAST TANKS

References

- F Bilge, Ballast, and Fire Schematic Drawing 039-200

Prepare and paint aft Port and Starboard steel freshwater ballast tanks as follows, in accordance with all requirements of this work item. The estimated total area of each tank to be painted is approximately 700 square feet. All work shall be done in a confined space.

Surface Preparation

Contractor shall Sandsweep Blast SSPC7 with SP6 approximately 700 square feet (100% of all painted area).

Surface Coating

Contractor shall use their own paint specs for painting aft freshwater ballast tanks. Vessel's ballast tanks are used for potable drinking water and paint specs chosen by contractor shall comply with all safety standards.

6. RUDDER REMOVAL, INSPECTION, AND INSTALLATION

References

- **L** Engine, Gear and Shafting Arrangement Drawing Number 039-300

The Contractor shall remove rudder, inspect and clean if necessary, and re-install both of the vessel's rudders. All inside diameters (IDs) of rudder bearings shall be measured. ID. All outside diameters (ODs) of rudder shaft surfaces in way of bearings shall be measured. Measurements shall occur in two directions, port/starboard and forward/aft. Bearings and shaft areas longer than 6" shall be measured in two locations at the top and bottom of contact areas.

The tiller arm IDs shall also be measured. Tiller arm, tiller arm key, and steering linkage shall be examined for excessive play.

All measurements and inspections shall be clearly written in a rudder bearing report and delivered to owner's representative.

Additional rudder work, if required, will be handled by change order.

7. SHAFTS REMOVAL, INSPECTION AND INSTALLATION

References

- **L** Engine, Gear and Shafting Arrangement Drawing Number 039-300
- **M** Shafting Arrangement Drawing Number 039-302

The contractor shall remove both tail shafts, move them to a covered and heated shop, inspect, and re-install. Both shafts are Hundested VP7/CPG32 units 5210/11 and are 5" stainless.

For the vessel's specialized Hundested equipment, it's recommended that the Contractor consult with a Hundested technical representative for specification's, recommendations and questions. Any issues and/or differences in opinion between the contractor and the owner, shall be resolved by consulting directly with Hundested.

Tail shafts shall be removed with propeller hubs and propeller blades intact. After removal, tail shaft/propeller assemblies shall be moved to a covered and heated machine shop for inspection. During transit, shafts and hubs shall be protected from wind/rain/dirt/grit. Once tail shafts have been safely removed, install plywood covers on the forward end of the stern tubes to prevent water from entering the engine room during cleaning of the stern tubes. Power wash the inside of the stern tubes to remove mud and debris.

Contractor should be advised that the distance from the force rod to the servo rod must be recorded and witnessed, prior to disassembly. Prior to shaft removal, the shaft brake will also need to be disassembled.

MEASUREMENTS. Each tail shaft shall be placed in a lathe and checked for run out. All inside diameters (IDs) of shaft bearings shall be measured. All outside diameters (ODs) of propeller shaft surfaces in way of bearings shall be measured. All measurements shall occur in two directions, inboard/outboard and top/bottom. Each bearings and shaft area shall be measured in two places, forward and aft in way of the contact area. After measurements are complete they shall be clearly written in a shaft bearing report and delivered to the owner's representative.

Contractor shall remove and replace each Port and Starboard Crane Mane Bar EJ 133 seals, propeller shaft EJ 133 Pneumostops (Two total), and VP7-9 ½ Rubber Washer Form Grease Seals (Two total). Remove and replace both Port and Starboard propeller shaft Pneumostops and Mane Bar EJ 133 Seals before installation. Inspect/clean saltwater cooling lines for stern tubes. Pneumostops and Mane Bar EJ 133 Seals, and grease seals shall be supplied by the Owner.

Tail shafts shall stay in the heated covered shop until all other propeller/shaft/bearing work is completed and they are ready to be installed into the vessel.

Contractor shall reinstall propeller shafts into vessel and re-assemble all components. Care shall be taken to not damage shaft bearings, seals and Pneumostops when shafts are reinstalled. Install new shaft brake for each shaft, two total. Contractor shall verify correct alignment of forward shaft coupling to reduction gear, to owner's representative.

Dockside trials shall be performed to ensure that both shafts propellers have been calibrated to absolute "zero" pitch with shafts turning at 300 shaft RPM's. If necessary a certified Kobelt representative may be contracted at contractors expense.

Vessel shall not undock, or operate, under its own power until dockside trials are complete.

Contractor shall conduct both dock and sea trials of both CPP shaft, propeller, and reduction gear systems to prove and verify that the systems are working correctly. (Trials shall occur under the supervision of the vessel's Master and the Hundested technical representative.) Sea trials will consist of a minimum of 4 hours of full speed operation during which time Contractor will monitor and record gear, bearing, seal, oil, and water temperatures. Sea trial data shall be delivered to Owner's Representative after trials.

8. PROPELLER HUB AND BLADE REMOVAL, INSPECTION INSTALLATION AND REPACKING

References

- **L** Engine, Gear and Shafting Arrangement Drawing Number 039-300
- **M** Shafting Arrangement Drawing Number 039-302

Contractor shall disassemble each propeller hub. Parts shall be cleaned and laid out in a safe and clean area organized by blade and side all wear areas shall be measured. Parts and blades shall be closely inspected for cracks and other problems. Die penetration inspection shall be used in areas of high stress. Measurements and observations shall be clearly written on a propeller hub report and delivered to the owner's representative. Report shall clearly indicate the percentage of maximum of total wear and shall make a recommendation if and when parts will need to be replaced.

Additional propeller hub work, if required, will be authorized by change order.

Contractor shall re-assemble the propeller hub and blades and repack each hub with about three 35 pound pails of Contractor supplied emulsifying grease through the threaded hole in the propeller hub. (Shell Alvania EP2 or equivalent to)

9. Propeller Shaft Cutlass Rubber Bearings Replacement

References

- **L** Engine, Gear, and Shafting Arrangement Drawing Number 039-300
- **M** Shafting Arrangement Drawing Number (039-302)

The Contractor shall remove existing shaft cutlass rubber bearings, inspect and measure for proper replacement. There are two shaft cutlass rubber bearings on each shaft, four bearings in a ship set. Fabricate or machine if necessary and install all new shaft cutlass rubber bearings.

New cutlass bearings shall be contractor supplied. Contractor must obtain written data from the manufacturer of the new bearings installed and have this information given to the Owner Representative for their records.

Contractor shall install bearings in accordance with manufacturer recommendations. Installation shall be witnessed by the owner's representative. After installation, the shaft bearing measurements taken as required by Section 7 shall be taken and a new written bearing clearance report provided to the Owner.

Vessel shall not undock, or operate, under its own power until dockside trials are complete. Contractor shall conduct both dock and sea trials of both shafts, propellers, and reduction gear systems to prove and verify that the systems are working correctly. (Trials shall occur under the supervision of the vessel's Master and Engineer.) Sea trials will consist of a minimum of 4 hours of normal and full speed operation during which time Contractor will monitor and record shaft temperatures. Sea trial data shall be delivered to Owner's Representative after trials.

10. ULTRASOUND HULL, COOLING LINES & AFT FUEL LINES

References

- **N** Structural Sections Aft Drawing Number 039-102
- **E** Engine Cooling Schematic Drawing Number 039-202,
- **O** Structural Sections Forward Sheet 1 of 2 Drawing Number 039-103
- **P** Structural Sections Forward Sheet 2 of 2 Drawing Number 039-104
- **Q** Fuel Oil Schematic Drawing Number 039-201

Contractor shall ultrasound saltwater cooling lines, aft fuel lines, and hull from keel to waterline using ABS Ultra-Sound Standards. This Work item is for a Certified Ultrasound Technician to test the integrity of all internal saltwater cooling lines, aft fuel lines, and hull from keel to waterline.

At the locations selected for this examination the surface shall be prepared as follows:

Where the painted surfaces coatings are detrimental to proper testing, the area will be chipped to bare metal on the corroded side. These locations shall be surveyed both visually and with ultrasonic thickness testing from the corroded side. Disturbed areas shall be prepared and painted following completion of the ultrasonic examination per paint specification in work item 5.

The locations to be included in the ultrasonic thickness test shall include:

11.1 Hull from keel to waterline and all tail-pipe penetrations

Contractor shall ultrasound outer hull from keel plate up to waterline including all saltwater, grey water, and black water tail-piping penetrations. Perform ultrasonic testing on the 5/16" side plating of hull, 5/16" bottom plating of hull, and 3/4" keel plate. There are fifteen (15) tail-piping penetrations located above the waterline. Port side has five 2", two 1 1/2", two 2 1/2", one 3", one 1", one 4", and one 3/4". Starboard side has two 1" tail-piping penetrations.

11.2 Saltwater cooling pipes

Contractor shall ultrasound all 90-10 copper nickel saltwater cooling lines located in engine room and inspect all fittings. From port sea chest to starboard sea chest is 4" copper nickel piping. Port and starboard auxiliaries have 2" copper nickel cooling pipes. Port and starboard main engines have 2 1/2" copper nickel cooling pipes.

11.3 Aft fuel lines

Contractor shall ultrasound the 2" aft fuel lines located in the air compressor room to determine the structural integrity. Access to the pipes requires the removal of four aluminum floorboards located in the compressor room. Additional fuel line work, if required, will be handled by change order.

Contractor shall provide to Owner Representative a written report of all recorded thickness data and interpretations as to saltwater and fuel piping, thru-hull piping, and overall hull integrity.

11. Install Furuno Transducer, Cable, and Fabricate New Transducer Housing

References

- **R** WASSP 160KHZ Transducer Installation Instructions
- **S** Transducer Housing Arrangement Drawing Number 039-129

The WASSP transducer is a rectangular-shaped, low-profile transducer for through-hull mounting, encased in a sealed sea chest made to suit the vessel's hull dead rise angle. Finite measurements and fabrication should be based on the physical transducer to allow for manufacturing tolerances. A sea chest for housing and sealing the transducer should be designed and constructed to suit the size and contours of the vessel's hull. This must be sized and constructed accurately. The transducer is supplied with a 10m cable.

Contractor shall install new WASSP 160KHZ transducer, cable, (Owner Supplied), and fabricate steel transducer housing while vessel is out of the water. WASSP 160KHZ transducer shall be installed in accordance with manufacturer's recommendations and to suit the cable penetration to a logical location within the hull. Route wires up to wheelhouse. Transducer work will be done in confined space.

Contractor shall fabricate and install steel transducer housing for WASSP 160KHZ transducer and shall be built as part of the vessel's hull. The transducer housing is to be built of formed vertical mild steel side plates to fully enclose the transducer. The transducer must be flush with the bottom of the hull for good performance and shall be built in a streamline shape as shown in reference. Transducer housing shall be constructed with ¼" steel horizontal bottom plate that is faired back to the hull at the front and back with sloping heavy round bar to prevent snag points. Install WASSP 160KHZ transducer into new transducer housing without any excessive strain on transducer cable. Install two watertight non-corrosive cable glands for transducer cable, one on fairing block and another just above the waterline. All new and disturbed steelwork shall be prepared and painted as stated under work item 5.1.

12. Install New Anchor Cable and Chain

Contractor shall remove existing 500 feet of 7/8" galvanized steel cable, plus 180 feet of 7/8" stud link anchor chain, and two 7/8" anchor joining links on anchor, cable, & chain.

Install new 500 feet 7/8" galvanized EIPS IWRC wire rope w/thimble eye swaged on each end, 180 feet of 7/8" galvanized stud link anchor chain. Install three 7/8" anchor joining links to anchor, cable, chain, and 7/8" galvanized swivel.

Anchor cable (wire rope), chain, and two anchor joining links will be owner supplied and located on back deck of vessel.

13. Inspect/Repair Steering System and Packing

References

- **T** Steering Control Drawing Number 039-590-104
- **U** Steering Piping Schematic Drawing Number 039-212
- **V** Steering Pump Motor Control Drawing Number 039-537

Contractor shall inspect and repair as necessary Wagner Engineering steering system located in steering compartment (confined space). Steering system is not holding pressure when steering pumps are off. Over time when not used, the system must be reprimed by turning on steering pumps and turning steering wheel by hand until helm pump in the wheelhouse is full.

Inspect seals/"o" rings on two (2) Model L80-409 double-acting steel hydraulic cylinders. Dimensions on hydraulic cylinders are 80mm bore x 409 mm stroke, part number 600-0002.

Inspect and repair hydraulic leaks on model M10 Accumotor control valve, part number 101-0047.

Inspect model B2 helm pump, part number 130-0008.

Contractor shall conduct both dock and sea trials on entire steering system to prove and verify that the systems are working correctly. Vessel shall not undock, or operate, under its own power until dockside trials are complete. (Trials shall occur under the supervision of the vessel's Master and the shipyard representative.)

14. New Shaft RPM & Pitch Gauges, PCB Boards

References

- **W** Command Transfer & Shaft Metering Drawing (039-531)
- **X** Switchboard Single Line Schematic Drawing Number 09-502
- **Y** Engine Room Transverse Views (921-321)

Contractor shall remove eight (8) R-65 Pitch Meters. Range is -10-0-10 volts DC, Scale is -10-0-10 Pitch, Complete with 24 volt lighting and external trim potentiometer. Remove eight (8) R-65 shaft R.P.M. meters. Range is 0-10 volts DC, scale is 0-500 R.P.M., Complete with 24 volt lighting and external trim potentiometer. Remove (4) 24 volt Input PCB boards.

Install new Shaft R.P.M. and Shaft Pitch Gauges, and PCB Boards. Eight (8) R-65 Pitch Meters. Range is -10-0-10 volts DC, Scale is -10-0-10 Pitch, Complete with 24 volt lighting and external trim potentiometer. Eight (8) R-65 shaft R.P.M. meters. Range is 0-10 volts DC, scale is 0-500 R.P.M., Complete with 24 volt lighting and external trim potentiometer. Four (4) 24 volt Input PCB boards.

New Shaft R.P.M. and Pitch gauges, and PCB boards shall be Contractor supplied.

Contractor shall conduct both dock and sea trials on entire control system to prove and verify that the systems are working correctly. Calibrate meters and PCB boards for true shaft pitch and shaft R.P.M. Vessel shall not undock, or operate, under its own power until dockside trials are complete. (Trials shall occur under the supervision of the vessel's Master and the shipyard representative).

15. Inspect Finning PLC System

References

- Switchboard Single Line Schematic Drawing Number 09-502

Contractor shall inspect/tune Finning PLC electrical system located in Engine Room. PLC system is working but calibration might be needed. Conduct both dock and sea trials on entire PLC system to verify that the system is working correctly.

16. Paint Saltwater Sea Chests in Engine Room

References

- Engine Cooling Schematic Drawing Number (039-202)
- Engine Room Transverse Views (921-321)

Prepare and paint the saltwater sea chests in engine room. Work to be done is considered confined space.

Surface Preparation

Contractor shall adequately cover both Port and Starboard saltwater sea chest with a curtain to prevent rust, dust, and paint from blowing around on engines and sensitive equipment and to prevent overspray when painting. Sandblast both sea chests with SSPC SP-10. Degrease if necessary.

Surface Coating

Paint all blasted surfaces of the upper exterior deck with one coat of DIMECOTE 302 at 1.0 MDFT, one coat of Ameron 235 Battleship Grey (primer) 1.0 MDFT and two coats of Battleship Grey Amerlock 2 gf/400 gf topcoat at 5.0 MDFT

ALASKA DEPARTMENT OF FISH AND GAME INVITATION TO BID # 220000012
R/V Kestrel
BID SCHEDULE

Prices include all labor and materials in U.S. Dollars

Bid Schedule Page 1 of 2

Work Item	Work Item Price	Work Item Total
1 Dry Docking		\$
2 Power Wash Hull		\$
3 Sea Chest, Strainer And Valves		\$
4 Zincs		
4.1 Install (24) Z-22 Hull Zincs	\$	
4.2 Install (2) Hub Zincs	\$	
4.3 Install (1) Z-3 Sea Chest Zinc	\$	
4.4 Install (2) X-47-3 Keel Cooler Zincs	\$	
4.5 Install (4) Rudder Zincs	\$	
Total for Work Item #4 Zincs		\$
5 Paint		
5.1 Keel to Waterline	\$	
5.2 Forward upper Exterior Deck	\$	
5.3 Wheelhouse	\$	
5.4 Funnel Structure	\$	
5.5 Waterline to Topside	\$	
5.6 Aft Freshwater Ballast Tanks	\$	
Total for Work Item #5 Paint		
6 Rudder Removal, Inspection, and Installation		\$
7. Shafts Removal, Inspection, and Installation		\$
8. Propeller Hub and Blade Removal, Inspection Installation		\$
Subtotal Page #1		\$

Bidder Name: _____

BID SCHEDULE

Prices include all labor and materials in U.S. Dollars

Bid Schedule Page 2 of 2

Work Item	Work Item Price	Work Item Total
9. Propeller Shaft Cutlass Rubber Bearings Replacement		\$
10. Ultrasound hull, cooling lines & aft fuel lines		\$
11. Install Furuno Transducer, Cable, and Fabricate New Transducer Housing		\$
12. Install New Anchor Cable and Chain		\$
13. Inspect/Repair Steering System and Packing		\$
14. New Shaft RPM & Pitch Gauges, PCB Boards		\$
15. Inspect Finning PLC System		\$
16. Paint Saltwater Sea Chests in Engine Room		
Subtotal Page #2		\$
	Page 1 Total	\$
	Page 2 Total	\$
Total Bid Price for All Work Items	\$	

Bidder Name:

Proposed Work Dates From: / /202 to / /202

Ordering Address:

Contact

Phone

Email

Fax

Address where work will be performed:

Award will be made to the lowest responsive and responsible bidder based on the total of all Work Items and the inter-port differential (described in General Terms and Conditions).