

KENT COUNTY WATER AUTHORITY  
REQUEST FOR BID  
RELATING TO WELL REHABILITATION SERVICES

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ARTICLE 1. GENERAL:

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1.1 PROJECT DESCRIPTION:

The Kent County Water Authority requests Bids from qualified well drillers capable of providing all labor, equipment, materials and services necessary to redevelop the existing Mishnock # 3, #4 and #5 public drinking water supply wells located off Nooseneck Hill Road, Coventry Rhode Island. The design capacity of the wells ranges between 450-780 gallons per minute (GPM). The contractor shall have a minimum of 10 years experience with the installation, development, redevelopment, re-screening and disinfection of gravel packed public drinking water system wells similar to the construction of the Mishnock wells. All work under this contract shall be brought to final completion within 30 calendar days of the start date negotiated between the Kent County Water Authority and the Bidder.

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ARTICLE 2. QUALIFICATIONS OF BIDDERS:

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- 2.1 Bidders may be investigated by Kent County Water Authority to determine if they are qualified to perform the work. All Bidders shall be prepared to submit to Kent County Water Authority, upon request, written evidence of such information and data necessary to make this determination.
- 2.2 The investigation of a Bidder will seek to determine whether the organization is adequate in size, financially sound and has sufficient personnel in the disciplines required to assure Kent County Water Authority that they can complete the assignment ordered by the Kent County Water Authority.
- 2.3 In evaluating Bids, Kent County Water Authority will consider the qualifications of only those Bidders who's Bids are in compliance with the prescribed requirements and the Bid Invitation.
- 2.4 The contractor shall have a minimum of 10 years experience in construction and redevelopment services related to the design and installation of gravel packed public drinking water supply wells of the size and capacity of the Mishnock wells.
- 2.5 Kent County Water Authority reserves the right to reject any Bid, or parts thereof, if the evidence submitted by, or the investigation of, such Bidder fails to satisfy Kent County Water Authority that such Bidder is properly qualified to carry out the obligations of the Bids and any and all assignments from the Kent County Water Authority.
- 2.6 Cost of insurance shall not be billable or included in rates proposed to the Kent County Water Authority. Failure to provide written evidence of insurance will be grounds for rejection of a Bid.

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**ARTICLE 3. COPIES BID DOCUMENTS:**

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- 3.1 Complete sets of Bid Documents shall be used in preparing the Bids. Kent County Water Authority assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bid Documents.
- 3.2 Kent County Water Authority, in making copies of Bid Documents available, do so only for the purpose of obtaining Bids for services coincident to redevelopment of the Mishnock public drinking supply wells #3, #4 and #5, and do not confer a license or grant for any other use.

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**ARTICLE 4. EXAMINATION OF BID DOCUMENTS:**

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- 4.1 Before submitting a Bid, each Bidder must examine the Bid Documents thoroughly, and familiarize themselves with Federal, State and local laws including but not limited to:
  - 4.1.1 All applicable Federal, State, and local codes.
  - 4.1.2 Rhode Island Department of Health regulatory requirements.
  - 4.1.3 Rhode Island Department of Environmental Management Regulation for material disposal.
  - 4.1.4 AWWA Standards.
  - 4.1.5 All other documents, regulations, publications and manufactures guides necessary to complete the work proposed.
- 4.2 Inspection - The Contractor shall become thoroughly familiar with the Mishnock wellfield site. By submitting the bid, the Contractor affirms having carefully examined the site and all conditions affecting work under this contract. No claim for additional cost will be allowed due to claims associated with lack of full knowledge of the existing conditions.
- 4.3 The submission of a Bid will constitute an incontrovertible representation by the Bidder that he has complied with every requirement of this Bid Document and all documents contained herein and all state and federal regulations.

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**ARTICLE 5. INTERPRETATIONS:**

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- 5.1 All questions about the meaning or intent of the Bid Documents shall be received in writing by Kent County Water Authority at the pre-bid conference.
- 5.2 Written clarifications or interpretations will be issued, if requested by Addenda, no later than five (5) business days before the Bid opening date. Only questions answered by formal written Addenda will be binding. Oral and other clarifications or interpretations will be without legal effect. Addenda will be mailed via certified mail, with return receipt requested,

to all parties recorded as having received the Bid Documents.

- 5.3 Each Bidder shall be responsible for determining that they have received all Addenda issued and so note on the Bid.

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**ARTICLE 6. PRE-BID CONFERENCE:**

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- 6.1 A pre-bid conference will be held, as described in the advertisement, to discuss project related concerns and onsite inspect/review of the wells at the wellfield.
- 6.2 It is recommended that each bidder attend the pre-bid conference to assess the conditions at the site. The pre-bid conference is not mandatory. Failure to attend will not negate the Bidder's ability to submit a Bid for consideration.

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**ARTICLE 7. BID FORM:**

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- 7.1 Each Bid shall be submitted on the Forms contained in the Documents. All blank spaces for Bid prices must be filled in with the unit price for the item or the lump sum for which the Bid is made.
- 7.2 Bid Forms shall be completed in ink or by typewriter. The Bid price of each item on the Form shall be stated in words, and figures. If unit prices are required on the Bid Form, discrepancies between unit prices and their respective total amounts will be resolved in favor of the unit prices.
- 7.3 Discrepancies between words and figures will be resolved in favor of words. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.
- 7.4 Bids by corporations shall be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown below the signature.
- 7.4 Bids by partnerships shall be executed in the partnership name and signed by a partner, whose title shall appear under the signature. The official address of the partnership shall be shown below the signature.
- 7.5. All names shall be typed or printed below the signature.
- 7.6 The Bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which shall be filled in on the Bid Form).
- 7.7 The address, phone numbers and email addresses to which communications regarding the Bid are to be directed shall be shown and/or provided with the bid documents.

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**ARTICLE 8. RECEIPT OF BIDS:**

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- 8.1 Sealed Bids for Rehabilitation of Mishnock Wells #3, #4, and #5 will be received at the time and place indicated in the Invitation for Bids.
- 8.2 Kent County Water Authority may consider informal any Bid not prepared and submitted in accordance with the provisions hereof.
- 8.3 Bidders are cautioned that it is the responsibility of each individual Bidder to assure that their Bid is in the possession of the responsible official of the Kent County Water Authority or his designee prior to the stated time and at the place of the Bid opening. Kent County Water Authority is not responsible for Bids delayed by mail and/or delivery services, of any nature.
- 8.4 All Bids shall be submitted in a sealed opaque envelope. Clearly indicate on the envelope jacket that it is a Bid for Mishnock Well Rehabilitation. Kent County Water Authority will not be responsible for any envelopes opened that are not clearly marked. (If forwarded by mail, Bid shall be in a sealed outer envelope marked as described above and shall be enclosed in another "inner" envelope with the notation "BID ENCLOSED" on the face.)

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**ARTICLE 9. MODIFICATION OF BIDS:**

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- 9.1 Bids may not be modified once a Kent County Water Authority representative or designee accepts them. Prior to the opening, a bidder may request in writing to withdraw a submitted bid. After opening of Bids, modifications will not be allowed.

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**ARTICLE 10. KENT COUNTY WATER AUTHORITY INVOLVEMENT DURING THE PROJECT:**

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- 10.1 It is clearly understood that the personnel of the Kent County Water Authority will have limited involvement in the Project. The Bidder is required to provide all services in performing the well rehabilitation services and all other appurtenant services to complete the requirements of the Project.
- 10.2 Kent County Water Authority shall provide all existing information to the selected contractor for review from all available company sources.
- 10.3 Kent County Water Authority will not provide any Design or Field Services for the project. The Executive Director/Chief Engineer will be available to review, in detail, all aspects of the Project and assist where necessary but, will provide no office work or fieldwork. Direction will be provided as needed. It is clearly understood that the contractor is responsible for the entire Project.

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## ARTICLE 11. AWARD OF PURCHASE ORDER

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- 11.1 The Purchase Order will be awarded per the Kent County Water Authority Purchasing regulations to the lowest responsible and eligible Bidder (Successful Bidder). Such a Bidder shall possess the skill, proper material, ability, and integrity necessary for the faithful performance of the work. The term "lowest responsible and eligible Bidder" as used herein shall mean the Bidder whose Bid is the lowest of those Bidders possessing the skill, proper material, ability, experience, requirements, and integrity necessary to the faithful performance of the Work. Experience shall mean a minimum of 10 years' experience with the installation, development, redevelopment, re-screening and disinfection of gravel packed public drinking water system wells similar to the construction and capacity of the Mishnock wells. The Kent County Water Authority reserves the right to award whole or in part, as indicated, each of the sub part totals of the Bid Forms.
- 11.2 In the event the successful Bidder cannot fully and timely perform his contractual obligation, the KCWA reserves the right to award the bid to any of the other qualified Bidders.
- 11.3 KCWA reserves the right to reject any and all Bids, or parts thereof, to waive any and all informalities if it is in KCWA's best interest to do so, and the right to disregard all nonconforming, non responsive, or conditional Bids or portions thereof.
- 11.4 A Bid that includes a Bid Price or unit price for any item that is abnormally low or high may be rejected as unbalanced.
- 11.5 KCWA reserves the right to reject the Bid of any Bidder that KCWA considers to be unqualified relative to Article 2 above.
- 11.6 If the Purchase Order is to be awarded, KCWA will give the Successful Bidder the original Purchase Order within 90 days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening of the Bids. All Bids shall remain open for 90 days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening of the Bids.
- 11.7 Kent County Water Authority may, at their sole discretion, award any portion or portions of the selected successful Bidders Bid. Bidder shall accept the Purchase Order, as written, for all or portions determined as the lowest responsible Bidder by Kent County Water Authority.

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## ARTICLE 12. INSURANCES

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- 12.1 Each and every Bidder shall provide written evidence at time of bid submission and attached thereto that they have or will acquire prior to execution of the work or letter of engagement to the Kent County Water Authority proper insurance as stated below. The contractor shall name the Kent County Water Authority, it's agents and employees as additional insured on all policies. The contractor shall have following insurances and/or bonds in force prior to the execution of work:
- 12.2 Worker's Compensation

- 12.2.1 Worker's Compensation Statutory
- 12.2.2 Employer's Liability \$1,000,000
- 12.3 Comprehensive General Liability including Premise/Operations; Explosion, Collapse and Underground Property Damage; Products/Completed Operations, Broad Form Contractual, Independent Contractors; Broad Form Property Damage; and Personal Injury liabilities.
  - 12.3.1 Bodily Injury: \$1,000,000 Each Occurrence  
\$2,000,000 Annual Aggregate
  - 12.3.2 Property Damage \$1,000,000 Each Occurrence  
\$2,000,000 Annual Aggregate
  - 12.3.3 Personal Injury, with employment exclusion deleted.  
\$1,000,000 Annual Aggregate
- 12.4 Comprehensive Automobile Liability including all owned (private and others), hired and non-owned vehicles:
  - 12.4.1 Bodily Injury \$1,000,000 Each Person  
\$2,000,000 Each Accident
  - 12.4.2 Property Damage \$1,000,000 Each Occurrence
- 12.5 The successful Bidder must furnish a 100% performance bond and a 100% payment bond with a surety company acceptable to the Owner and on the forms acceptable to the Owner.

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**ARTICLE 13. SALES TAX**

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- 13.1 The materials and supplies to be used in the Work are tax-exempt by R. I. State Law, Section 39.16 of the State Code.

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**ARTICLE 14. SCOPE OF WORK:**

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14.1 **GENERAL**

This project involves the rehabilitation and redevelopment of the Mishnock #3, #4 and #5 public water supply wells. The contractor shall furnish all materials, labor, equipment, testing and incidentals necessary and proper for all phases of this project. The Contractor shall be responsible to obtain and pay all costs associated with applicable permits, required tests and inspections. Recommending the specific method of redevelopment shall be the responsibility of the contractor based on the findings from the video inspection, testing and sampling results. The final contractor's redevelopment efforts must restore the production

capacity of the well to its original designed yield. All work shall be in conformance with American Water Works Association (AWWA) Standards for Deep Water Gravel Packed Wells and Rhode Island Department of Health and Department of Environmental Management regulations. The following Scope of Work shall be completed for each well.

**Table 1- Design Specifications for Mishnock Wells**

<b>WATER ELEVATIONS AND DEPTHS (FEET)</b>	<b>WELL 3</b>	<b>WELL 4</b>	<b>WELL 5</b>
VENT ELEVATION	257.39	259.15	258.14
GRADE ELEVATION	252.39	254.15	253.14
CENTERLINE ON DISCHARGE ELEVATION	247.14	248.81	247.89
PRESSURE/LEVEL TRANSDUCER ELEVATION	203.74	201	187.86
TOP OF PUMP ELEVATION	202.74	200	186.86
BOTTOM OF PUMP ELEVATION	196	193.2	19.14
TOP OF SCREEN ELEVATION	194.89	192.15	178.14
BOTTOM OF SCREEN ELEVATION	184.89	182.15	168.14
OVERALL DEPTH (VENT-SCREEN BOTTOM)	72.5	77	90
DEPTH (GRADE-SCREEN BOTTOM)	67.5	72	85
PUMP DEPTH (PITLESS-BOTTOM OF PUMP)	51.14	55.61	68.75
<b>WELL CONSTRUCTION</b>			
CASING TYPE	STEEL	STEEL	STEEL
OLD CASING DIAMETER BELOW GRADE (INCHES)	24	24	24
NEW CASING DIAMETER BELOW GRADE (INCHES)	18	18	18
SANITARY SEAL AROUND CASING (20 FT DEPTH)	YES	YES	YES
CASING DIAMETER ABOVE GROUND (INCHES)	20	20	20
GRAVEL PACKED BETWEEN OLD AND NEW CASING	3/8 X 3/16	3/8 X 3/16	3/8 X 3/16
SCREEN DEPTH (FEET)	10	10	10
SCREEN SLOT SIZE (INCHES)	0.22	0.22	0.22
<b>PUMP INFORMATION</b>			
SUBMERSIBLE PUMP (NO. OF STAGES)	2	2	4
SUBMERSIBLE PUMP VERTICAL TURBINE	YES	YES	YES
MODEL (GOULDS)	11CLC	12CLC	10RJLC
DRIVE	VFD	VFD	VFD
SUMBERSIBLE PUMP MOTOR SIZE (HP)	25	30	20
VOLTAGE	480	480	480
PHASE	3	3	3
MAX RPM	180	1800	180
NORMAL OPERATING RANGE (GPM)	350-600	350-800	350-600
MAX FLOW (GPM)	600	800	600
DESIGN FLOW (GPM)	575	780	450
DESIGN FLOW TOTAL DYNAMIC HEAD (FEET)	110	114	136
SPECIFIC CAPACITY (GPM/FT)	16	22	9
*Elevations measured in NAVD 88 vertical datum.			

- 14.1.1 Verify and document existing specific capacity pumping rate conditions. Remove, and power wash all removed components and piping. All removed well piping and/or components stored on site must be in a sanitary manner. The well piping must be sealed with caps or poly sheet plastic to prevent insects, animals, and any other potential contamination.
  - 14.1.1.1 As necessary, provide temporary weather-tight coverings or enclosures to ensure inclement weather does not adversely impact the progress of work or contaminate the wells.
  - 14.1.1.2 Provide sediment and soil erosion control measures as necessary.
- 14.1.2 Furnish the services of a licensed electrician to disconnect and reconnect all electrical connections.
- 14.1.3 Remove all well pumps from motors. Provide the Authority with the old two stage well pumps in Wells 3 and 4 and replace with new 2-stage stainless steel impeller pumps matching the size and specifications of the existing pumps. Disassemble and inspect the 4-stage pump in Well 5. Inspection report shall document and record clearances, any worn parts, and condition of all impellers, wear rings bearings and shafts. Clearance measurements shall be documented for all components.
  - 14.1.3.1 Immediately notify KCWA of all findings and recommendations for repair or replacement of items found out of tolerance and submit a written report documenting findings. Report shall include photographic documentation of all parts. Replacement of all existing bronze impellers with stainless-steel impellers for the Well 5 pump shall be included as part of this work.
  - 14.1.3.2 Upon completion of inspection and report, KCWA will authorize any necessary repairs and/or component replacement. Upon completion of repairs and/or component replacement, reassemble all pumps, motor assemblies and column pipes.
- 14.1.3 The Contractor shall designate a responsible member of the organization at the site whose duty shall be the prevention of accidents and organization of work duties.
- 14.1.4 Conduct pre-redevelopment digital color video bore scope inspection of well casings and screens. Color close-circuit television camera and equipment shall be specifically designed for submergence in water for well casing bore hole inspections of this nature.
  - 14.1.4.1 The camera shall be capable of producing picture quality digital video documentation and provide corresponding measurements necessary to meticulously document the wells condition.



- 14.1.4.2 Camera equipment shall be capable of producing picture quality still photographs of specific areas of the well identified by the Authority during the video inspection process.
- 14.1.4.3 The selected contractor shall provide two copies of the video inspection and two 8x10 color copies of any photographs selected by the Authority
  - 14.1.4.3.1 Color photograph deliverable shall include both printed and digital copies(JPEG format) for each photograph taken.
- 14.1.5 Clean, surge, redevelop and disinfect the wells to restore, or better, the design specific capacity as shown in Table 1 and meet AWWA and RIDOH standards for restoring the public water supply wells to full operation.
  - 14.1.5.1 Cleaning and redevelopment activities shall continue until well performance is verified to be consistent with the original designed specific capacity or achieve a rate acceptable to the Authority.
  - 14.1.5.2 Disinfection and flushing activities shall continue until water quality is verified to be consistent with RI Department of Health regulations for public drinking water systems and approval by the RI Department of Health to reactivate the wells for public supply.
    - 14.1.5.2.1 Following disinfection, the wells shall be flushed to waste until zero chlorine residual is realized. The contractor is responsible to provide and make use of chlorine and neutralization equipment as necessary to comply with all governing regulations issued by RIDOH and RIDEM.
    - 14.1.5.2.2 If the initial disinfection efforts fail to produce water quality samples free of coliform bacteria, the disinfection process shall be repeated as many times as necessary at no additional cost to the Authority until compliance is achieved.
    - 14.1.5.2.3 Following flushing, a minimum of three samples shall be collected from each well at fifteen-minute intervals for bacteriological testing. Samples shall be collected, preserved and tested in accordance with standard methods for coliform bacteria and Heterotrophic plate count, at a State of Rhode Island certified laboratory. Repeat or additional samples shall be billed to the contractor.
    - 14.1.5.2.3 Following coliform bacteria testing the contractor shall perform sampling as outlined in section 1.4(J) of the RIDOH Public Drinking Water Regulations, at least one round of Inorganic Chemicals listed in 1.16.1, Synthetic Organic Chemicals listed

in 1.16.2(A), and Volatile Organic Chemicals listed in 1.16.1(B) and sampling as necessary to assure no trace of the chemical used in the redevelopment process are present.

14.1.5.3 Upon completion of well redevelopment, conduct post redevelopment digital color video inspection of well casings and screen conditions. Video shall be performed in conformance with the requirements of 14.1.4 above.

14.1.5.4 The Contractor shall be responsible for the removal and proper disposal of all redevelopment related chemicals, waste products and materials.

14.1.6 Renew the single submersible pump discharge column check valve on each well with two, inline soft check valves and test for leaks. Repair any discrepancies.

14.1.7 Owner shall provide three KPSI Series 320 Level Probes with Aneroid Bellows (Model 815) to be installed by the contractor as needed.

14.1.8 Reassemble and install all well equipment, instrumentation, and electrical connections. Install two stilling wells, one for the continuous online level sensor and the other for field water level measurement. The sensor stilling wells are to be of sufficient diameter to accommodate the sensor sizes and be perforated to allow the free flow of water in and out. It is the goal to maximize the diameter of stilling wells to receive a probe that is one inch in diameter. Verify water well level sensor readings on SCADA against a handheld water level meter using a Solinst water level meter or equivalent.

14.1.9 Perform extended capacity well rating test and provide detailed written records outlining cleaning, operation, specific capacity and electrical performance testing. Six copies of the final report shall be delivered to the Authority prior to application for payment of the work.

14.1.10 All work will be conducted in such a manner that the existing facilities, structures or daily work duties of the Kent County Water Authority will not be adversely impacted during the processes of the well redevelopment work.

## 14.2 **MOBILIZATION/DEMOBILIZATION**

14.2.1 Payment under Bid Item 1 shall be a lump sum amount to include full compensation for all labor, equipment, materials and incidentals to perform the following:

14.2.1.1 Mobilization/demobilization to the job site of all equipment, personnel, and materials necessary and required to perform the work.

14.2.1.2 Removal of the existing submersible pump and associated instrumentation equipment. Reinstallation of all equipment at the conclusion of work.

14.2.1.3 Provisioning and maintenance of soil erosion and sediment control measures. Removal upon completion of work.

14.2.1.4 Services of the licensed electrician.

14.2.1.5 Disinfection of the well including injection of all chemicals, chlorinated water disposal and laboratory testing.

14.2.1.6 Post-work cleanup and site restoration.

14.2.1.7 Provide final permanent written records of all work completed and compilation of test results.

### 14.3 **WELL REDEVELOPMENT**

14.3.1 The basis for payment under bid Item #2 shall be a lump sum for each well. Provide all services for set up and knock down of well equipment, pull the existing pumps, disassemble and inspect 4-stage pump in well #5, replace bronze impellers with stainless steel impellers. Install new two stage replacement pumps with stainless steel impellers in wells #3 and #4. Reassemble pumps and pump column pipe. Replace all single pipe column check valves with new double check valves. Install the well pumps ,appurtenances, and sensor stilling wells in wells.

14.3.2 Payment for bid Item 3 shall be based on the number of hours and fraction of hours spent on the job performing cleaning, video inspection rehabilitation and redevelopment operations on the wells including setting and removing surging apparatus, injecting chemicals into the well, rating tests and pumping and surging operations and all appurtenances

### 14.4 **MISCELLANEOUS ALLOWANCE**

14.4.1 Bid Item 4 shall be inclusive of all expendable materials which may be required to properly complete the work, including but not limited to chemicals for redevelopment or disinfection which may vary based on the actual conditions of the well. The cost of the materials expended in these processes shall be covered on a cost reimbursement basis for the actual quantities employed. The Contractor must, however, identify the need and provide justification for these materials, along with estimated quantities and costs, prior to use in the project work or the owner will not reimburse the Contractor for the materials. Actual invoices reflecting quantities used must be submitted for reimbursement against the allowance reflected in bid item 4.

### 14.3 **FINAL CLEANING**

14.3.1 Provide dumpster and disposal services to remove from site all waste products and work-related debris. Where material or debris has fallen or been collected as part of the work accomplished under the contract work limits or elsewhere during the course

of the Contractor's operations, such material or debris shall be entirely removed and satisfactorily disposed during the progress of the Work and shall, upon completion of the Work, be left in a clean and neat condition.

14.3.2 The Contractor shall restore or replace, when and as directed, any public or private property disturbed or damaged by his work, equipment, or employees, to a condition at least equal to that existing immediately prior to the beginning of operations. To this end the Contractor shall accomplish all necessary work and provide all necessary materials and equipment for such restoration. The restoration of existing property or structures shall be done as promptly, and as practicable, as work progresses, and shall not be left until the end of the contract period.

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## ARTICLE 15. MATERIALS, WORKMANSHIP AND GUARANTEE

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15.1 The Contractor guarantees that the work and services to be performed under the Contract, and all workmanship, materials and equipment performed, furnished, used, or installed, shall meet all required standards for potable drinking water and be free from defects and flaws, and shall be performed, and furnished in strict accordance with the Federal and State regulations, manufacturers specifications and other Contract Documents. The strength of all parts of all manufactured equipment shall be adequate and as specified and all the performance test requirements of the Contract shall be fulfilled. This guarantee shall be for a period of one year from the date of completion and acceptance of the Work.

15.2 The Authority may notify the Contractor in writing to make the required repairs, correction, or replacements at any time within the said period of guarantee should any part of the Work require repairing, correction or replacement. If the Contractor neglects to commence making such repairs, corrections or replacements to the satisfaction of the Authority within ten (10) days from the date of receipt of such notice, or having commenced, fails to prosecute such Work with diligence, the Authority may employ other persons to make the same, and all direct and indirect costs of making said repairs, correction or replacements, including compensation for additional professional services, shall be paid by the Contractor.

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## ARTICLE 16. QUANTITIES:

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16.1 The quantities listed on the Bid form are estimated for bidding purposes only. The actual quantity will be based on actual measurements upon completion of the work. Kent County Water Authority reserves the right to purchase additional materials or services over and above the estimated listed quantities and or less than the listed quantities on the Bid forms at the prices bid. All allowance items shall be approved prior to usage or purchase.

BID FORM TO  
KENT COUNTY WATER AUTHORITY  
RELATING TO WELL REHABILITATION SERVICES

The undersigned declares that the only persons or parties interested in this Bid as principals are as stated; that the Bid is made without any collusion with other persons, firms, or corporations; that he has carefully examined all the Documents and that he has informed himself fully in regard to all conditions pertaining to the Work and from them the undersigned makes this Bid. These prices shall cover all expenses incurred in performing the Work required under the Documents of which this Bid Form is a part.

The quantities listed in the bid are approximate and are given for use in comparing bids and to indicate approximately the total amount of the contract. The owner does not expressly or by implication represent the actual amounts of work will even approximately correspond therewith, but does call particular attention to the uncertainty of the quantities of work involved which cannot be predicted in advance. Under the Contract, the Owner reserves the right to increase or decrease the approximate quantities, or omit entirely, any of the items listed in the bid. Only such quantities of the respective items of work actually performed and accepted will be paid for. An increase or decrease in the quantity for any item shall not be regarded as grounds for an increase or decrease in the unit bid price.

The undersigned hereby agrees to all items listed in the instructions to Bidders and technical specifications and will provide all material and services as accepted by the KCWA in the Purchase Order to be provided to the lowest respective Bidders.

The undersigned acknowledges receipt of addenda numbered:

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In accordance with the above understanding, the undersigned proposes to furnish all services and materials, in its entirety in the manner and under the conditions required at the prices listed as follows

BID FORM  
 KENT COUNTY WATER AUTHORITY  
 WELL REHABILITATION SERVICES

Item No.	Estimated Quantity	Size and Description	Unit Bid Unit	Price	Total Amount In Figures
1	Lump Sum	Provide all services for mobilization/demobilization of equipment, materials and supplies to and from the project site.	L. S.	_____	_____
Total lump sum price in words					
2.1	Lump Sum	Provide all services for set up and knock down of well #3 equipment, pull the existing pump, Remove pump from motor, install new 2 stage pump with stainless steel impellers, reassemble pump and column pipe, install new double check valves and stilling wells. Reinstall the existing pump and all appurtenances in well	L. S.	_____	_____
Total lump sum price in words					
2.2	Lump Sum	Provide all services for set up and knock down of well #4 equipment, pull the existing pump, Remove pump from motor, install new 2 stage pump with stainless steel impellers, reassemble pump and column pipe, install new double check valves and stilling wells. Reinstall the existing pump and all appurtenances in well	L. S.	_____	_____
Total lump sum price in words					

2.3 Lump Sum Provide all services for set up and knock down of well #5 equipment, pull the existing pump disassemble and inspect pump, install new stainless-steel impellers reassemble pump and column pipe, install new double check valves and stilling wells. Reinstall the existing pump and all appurtenances in well, L. S. \_\_\_\_\_

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Total lump sum price in words

3 120 Hours Machine time on the job performing cleaning, video inspection rehabilitation and redevelopment operations on the wells including setting and removing surging apparatus, injecting chemicals into the well, rating tests and pumping and surging operations and all appurtenances Hour \_\_\_\_\_

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Total per hour price in words

4 \$6,000 Miscellaneous chemicals and water quality sampling allowance reimbursable at cost for all chemicals that may be required for redevelopment of the Wells (Invoices required for reimbursement) \_\_\_\_\_ \$6,000

**TOTAL AMOUNT BID** \_\_\_\_\_

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**Total amount Bid in words**

The names and residences of all persons and parties interested in the foregoing Bid and principals are as follows:

(Give first and last names in full. In the case of a corporation, or partnership, see Article 7 of the Instructions to Bidders.

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Notice of acceptance should be mailed, telegraphed, or delivered to the undersigned Bidder at the following address:

\_\_\_\_\_  
(Name)

By: \_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Business Address)

\_\_\_\_\_  
(City and State)

Date \_\_\_\_\_

Note: If the Bidder is a corporation, indicate State of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses, if different from business address.