

Attachment - A

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total
1	Southeast EST	1	LS	\$58,280.00	\$58,280.00
2	Bundrant EST	1	LS	\$61,080.00	\$61,080.00
3	McMillian GST Tank #1	1	LS	\$49,960.00	\$49,960.00
4	McMillian GST Tank #2	1	LS	\$49,960.00	\$49,960.00
	Total				\$219,280.00

PAX WATER TECHNOLOGIES

A cleanwater1 Company

BID PROPOSAL

PAX PWM250 MIXERS FOR CITY OF KILLEEN TX - SOUTHEAST, BUNDRANT, MCMILLAN MOUNTAIN NO. 1 & 2 TANKS



PAX PWM250 SERIES MIXER

PAX Water Technologies File No.: P24-22266-Rev 2

Prepared on: August 8, 2024

SALES REPRESENTATIVE:
Environmental Improvements (EI2)
Curtis Cathey
1183 Brittmoore Rd., Ste.100
Houston, TX 77043
T: (512) 295-3733
Email: ccathey@ei2austin.com

PAX WATER TECHNOLOGIES

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IMPORTANT NOTICE:

PAX Water Technologies is a Division of UGSI Chemical Feed, Inc., a Cleanwater1 company.

All the information in this Proposal or supplied in connection with this Proposal (including drawings, designs and specifications) (collectively, the "Information") is confidential and has been prepared for Buyer's use solely in considering the purchase of the goods and services described. Transmission of all or any part of this Proposal to others or use by Buyer for other purposes is unauthorized without Seller's advance written consent.

PAX WATER TECHNOLOGIES

A cleanwater1 Company

August 8, 2024

To: Purchasing Department, City of Killeen

Re: Invitation for Bid 24-45 Purchase and Installation of 4 Water Storage Tank Mixers (Release Date July 24, 2024)
Killeen, TX
PAX Water Technologies File No.: P24-22266-Rev 2

To whom it may concern,

PAX Water Technologies Division of UGSI Chemical Feed, Inc., a cleanwater1 company (PAX), is pleased to provide this Bid Proposal for (4) PAX PWM250 mixers for the City of Killeen, TX.

Please note the following key points when evaluating our Proposal:

- Our system will be delivered to you with most major components assembled as specified for simple installation. Ancillary components of the mixing system will be shipped loose for installation and connection at the job site.
- Our Proposal is based on the following design criteria:

Tank:	Southeast EST	Bundrant EST	McMillan #1 GST	McMillan #2 GST
Gallons of Stored Water, in Millions	2.5	1.5	1.5	1.5
Average Asset Turnover, MGD	0.92	0.98	0.41	0.41
Maximum Asset Turnover, MGD	1.38	1.14	0.67	0.67
Tank Diameter, in feet	105	90	90	90
Tank Height, in feet	50	45	37	37
Overall Tank Height, in feet	136.5	142	37	37
High Water Level, in feet	45	40	32	32
Low Water Level, in feet	20	15	18	18

A detailed breakdown of our scope of work appears in Section 1 of this Proposal. **Please review it carefully, including our list of exclusions and clarifications, to ensure that a complete system is provided to Killeen, TX.** Section 3 includes our standard Terms and Conditions. All pricing is based on the scope of work described in Section 1 and the Terms and Conditions in Section 3.

Thank you for the opportunity to work with you. If we can be of any further assistance, please do not hesitate to contact our sales representative, Curtis Cathey at Environmental Improvements (EI2), or me at (210) 245-0870.

Sincerely,

Jeremy Scott
Regional Sales Manager

cc: John Busse, cleanwater1, inc.
Curtis Cathey, EI2
Wendy Trinh, PSI Water Technologies, Inc.

PAX WATER TECHNOLOGIES

A cleanwater1 Company

SECTION 1

SCOPE OF SUPPLY PAX PWM250 MIXERS

- A. Scope of Work by PAX
- B. Scope of Work by Others
- C. Clarifications/Exceptions
- D. Terms of Payment/Price Validity
- E. Delivery
- F. Warranty

PAX WATER TECHNOLOGIES

A cleanwater1 Company

A. SCOPE OF WORK BY PAX

The following equipment and services comprise our scope of work:

A1. SOUTHEAST EST

<u>No</u>	<u>Item Description</u>	<u>Qty.</u>
1.	PWM250 Mixer Wet Assembly , including: <ul style="list-style-type: none">Stainless-Steel ballast ball and housingEPDM molded footIntegrated power cableThe ability to function continuously regardless of tank cycles230V Three phase 2 horsepower water-cooled motor powered by the PAX Control Center50 ft stainless-steel installation chain	1
2.	Control Center Dry Assembly with SCADA Compatibility , including: NEMA 4 Enclosure: <ul style="list-style-type: none">Lockable and weather resistantOverall weight of control center 70 lbs.Operating temperature range -4 °F to 129 °F (-20 °C to 55 °C)Green and Red LED Indicator lights to display motor statusWhite LED Indicator light to display powerCooling fan Motor Controller/VFD: <ul style="list-style-type: none">Allen Bradley<u>On-site power requirement: 230VAC single phase</u>VFD Rating: 3 HPHOA SwitchThermal shut-off protection built-inCurrent overload protection built-inSine filterBranch-circuit protection SCADA outputs included: <ul style="list-style-type: none">Digital Output signal indicating motor runningDigital Output signal indicating faultDigital Input/Output signal for remote motor on/offRS-485 or Dry Contact connections4-20mA signal	1
3.	Cable 130 ft. , including: <ul style="list-style-type: none">Flat-jacketed 4-conductor	1
4.	Chemical Injection Stems	1
5.	Tank Penetration Accessories <ul style="list-style-type: none">Stainless steel strain relief for 4 wire flat-jacketed cable	1
6.	Submittal and Operation & Maintenance Manual as Follows <ul style="list-style-type: none">Submittals: Qty. One (1) Sent ElectronicallyO&M Manual: Qty. One (1) Hard Copy	Included
7.	Installation Services , including: <ul style="list-style-type: none">Mount PAX control center utilizing Unistrut to tank riser sidewall (ground level). Unistrut attachment secured to sidewall or Unistrut rack with washered Tapcon screws.	Included

PAX WATER TECHNOLOGIES

A cleanwater1 Company

<u>No</u>	<u>Item Description</u>	<u>Qty.</u>
	<ul style="list-style-type: none">▪ Installation of 1" schedule 40 PVC conduit from mixer control center routed up tank riser access ladder with conduit beam clamps (secured to the ladder stand-offs or magnetic mounts to riser platform. Based on tank design, equipment shall be installed INSIDE the tank.▪ Tank penetration (if necessary): A 1" hole will be drilled as necessary at riser platform above the high water level to allow for mounting of aluminum conduit body (dry side) to the supplied strain relief (wet side).▪ A 3/8" hole will be drilled in riser platform to allow mounting of S.S. eyebolt to secure mixer recovery chain.▪ Physical install of PWM250 into the tank: Installation assumes the mixer to be installed in the tank while empty and be positioned below the roof access hatch nearest the exterior access ladder. The mixer power cable will be secured (nylon zip ties) at 10'-12' intervals to recovery chain to maintain a neat appearance and limit possible entanglement. Recovery chain will be secured to S.S. eyebolt mounted in sidewall of roof access hatch neck/nozzle. Mixer cable will pass through the strain relief and terminate in an aluminum conduit body.▪ 12 AWG THHN stranded wire (red, black, yellow, green) will be pulled through the 1" PVC conduit from the control center to the conduit body.▪ Mixer wire will be connected to 12 AWG TTHN wire in conduit body via wire nuts.▪ 12 AWG TTHN wire to/from the mixer will be connected to the mixer control center.▪ Measurement of readings will be made to confirm proper mixer operation when mixer is powered on.<ul style="list-style-type: none">○ If power is not supplied to controller at time of installation, mixer operation will not be able to be tested and confirmed. PAX will not be responsible to return and confirm operation of mixer at a later date.▪ Site clean-up of related installation materials.	
8.	Manufacturer's Field Services (1 Day at the Jobsite), including: <ul style="list-style-type: none">▪ Installation Inspection▪ System Start-Up▪ Operator Training	Included
9.	FOB Factory, Vineland, NJ, with Full Freight Allowed to Jobsite, Killeen, TX	Included
	BID PRICE [ITEMS A1, lines 1 – 9]	\$ 58,280

PAX WATER TECHNOLOGIES

A cleanwater1 Company

A2. BUNDRANT EST

<u>No</u>	<u>Item Description</u>	<u>Qty.</u>
10.	PWM250 Mixer Wet Assembly , including: <ul style="list-style-type: none">Stainless-Steel ballast ball and housingEPDM molded footIntegrated power cableThe ability to function continuously regardless of tank cycles230V Three phase 2 horsepower water-cooled motor powered by the PAX Control Center50 ft stainless-steel installation chain	1
11.	Control Center Dry Assembly with SCADA Compatibility , including: NEMA 4 Enclosure: <ul style="list-style-type: none">Lockable and weather resistantOverall weight of control center 70 lbs.Operating temperature range -4 °F to 129 °F (-20 °C to 55 °C)Green and Red LED Indicator lights to display motor statusWhite LED Indicator light to display powerCooling fan Motor Controller/VFD: <ul style="list-style-type: none">Allen Bradley<u>On-site power requirement: 230VAC single phase</u>VFD Rating: 3 HPHOA SwitchThermal shut-off protection built-inCurrent overload protection built-inSine filterBranch-circuit protection SCADA outputs included: <ul style="list-style-type: none">Digital Output signal indicating motor runningDigital Output signal indicating faultDigital Input/Output signal for remote motor on/offRS-485 or Dry Contact connections4-20mA signal	
12.	Cable 130 ft. , including: <ul style="list-style-type: none">Flat-jacketed 4-conductor	1
13.	Chemical Injection Stems	1
14.	Tank Penetration Accessories <ul style="list-style-type: none">Stainless steel strain relief for 4 wire flat-jacketed cable	1
15.	Submittal and Operation & Maintenance Manual as Follows <ul style="list-style-type: none">Submittals: Qty. One (1) Sent ElectronicallyO&M Manual: Qty. One (1) Hard Copy	Included
16.	Installation Services , including: <ul style="list-style-type: none">Mounting of manufacturer supplied mixer control panel utilizing unistrut to tank riser sidewall (ground level). Unistrut attachment secured to sidewall or Unistrut rack with washered Tapcon screws.Installation of 1" schedule 40 PVC conduit from mixer controller routed up tank riser access ladder with conduit beam clamps (secured to the ladder stand-offs or magnetic mounts in riser tube). Based on tank design, all equipment shall be installed INSIDE the tank.	Included

PAX WATER TECHNOLOGIES

A cleanwater1 Company

<u>No</u>	<u>Item Description</u>	<u>Qty.</u>
	<ul style="list-style-type: none">▪ Tank penetration: [if necessary] A 1" hole will be drilled as necessary at riser platform above the high water level to allow for mounting of aluminum conduit body (dry side) to the 1" strain relief (wet side).<ul style="list-style-type: none">○ A 3/8" hole will be drilled in riser platform to allow to mounting of S.S. eyebolt to secure mixer recovery chain.▪ Physical install of PWM-250 into the tank: Installation assumes the mixer to be installed in the tank while empty and be positioned below the roof access hatch nearest the exterior access ladder. The mixer power cable will be secured (nylon zip ties) at 10'-12' intervals to recovery chain to maintain a neat appearance and limit possible entanglement. Recovery chain will be secured to S.S. eyebolt mounted in sidewall of roof access hatch neck/nozzle.<ul style="list-style-type: none">○ Mixer cable will pass through the strain relief and terminate in an aluminum conduit body.▪ 12 AWG THHN stranded wire (red, black, yellow, green) will be pulled through the 1" PVC conduit from the controller to the conduit body.▪ Mixer wire will be connected to 12 AWG TTHN wire in conduit body via wire nuts.▪ 12 AWG TTHN wire to/from mixer will be connected to the mixer controller per manufacturer's instructions.▪ Measurement of readings will be made to confirm proper mixer operation when mixer is powered on.<ul style="list-style-type: none">○ If power is not supplied to controller at time of installation, mixer operation will not be able to be tested and confirmed. PAX will not be responsible to return and confirm operation of mixer at a later date.▪ Site clean-up of related installation materials.▪ Installation includes conduit, conduit connections, wire, and conduit mountain brackets.	
17.	Manufacturer's Field Services (1 Day at the Jobsite), including: <ul style="list-style-type: none">▪ Installation Inspection▪ System Start-Up▪ Operator Training	Included
18.	FOB Factory, Vineland, NJ, with Full Freight Allowed to Jobsite, Killeen, TX	Included
	BID PRICE [ITEMS A2, lines 10 – 18]	\$ 61,080

PAX WATER TECHNOLOGIES

A cleanwater1 Company

A3. MCMILLAN MOUNTAIN GST NO. 1

<u>No</u>	<u>Item Description</u>	<u>Qty.</u>
19.	PWM250 Mixer Wet Assembly , including: <ul style="list-style-type: none">Stainless-Steel ballast ball and housingEPDM molded footIntegrated power cableThe ability to function continuously regardless of tank cycles230V Three phase 2 horsepower water-cooled motor powered by the PAX Control Center	1
20.	Control Center Dry Assembly with SCADA Compatibility , including: NEMA 4 Enclosure: <ul style="list-style-type: none">Lockable and weather resistantOverall weight of control center 70 lbs.Operating temperature range -4 °F to 129 °F (-20 °C to 55 °C)Green and Red LED Indicator lights to display motor statusWhite LED Indicator light to display powerCooling fan Motor Controller/VFD: <ul style="list-style-type: none">Allen Bradley<u>On-site power requirement: 230VAC single phase</u>VFD Rating: 3 HPHOA SwitchThermal shut-off protection built-inCurrent overload protection built-inSine filterBranch-circuit protection SCADA outputs included: <ul style="list-style-type: none">Digital Output signal indicating motor runningDigital Output signal indicating faultDigital Input/Output signal for remote motor on/offRS-485 or Dry Contact connections4-20mA signal	
21.	Cable 130 ft. , including: <ul style="list-style-type: none">Flat-jacketed 4-conductor	1
22.	Tank Penetration Accessories <ul style="list-style-type: none">Stainless steel strain relief for 4 wire flat-jacketed cable	1
23.	Chemical Injection Stems	1
24.	Submittal and Operation & Maintenance Manual as Follows <ul style="list-style-type: none">Submittals: Qty. One (1) Sent ElectronicallyO&M Manual: Qty. One (1) Hard Copy	Included
25.	Installation Services , including: <ul style="list-style-type: none">Mounting of manufacturer supplied mixer control panel utilizing unistrut to tank riser sidewall (ground level). Unistrut attachment secured to sidewall or Unistrut rack with washered Tapcon screws.Installation of 1" schedule 40 PVC conduit from mixer controller routed up tank riser access ladder with conduit beam clamps (secured to the ladder stand-offs or magnetic mounts in riser tube). Based on tank design, all equipment shall be installed INSIDE the tank.	Included

PAX WATER TECHNOLOGIES

A cleanwater1 Company

<u>No</u>	<u>Item Description</u>	<u>Qty.</u>
	<ul style="list-style-type: none">▪ Tank penetration: [if necessary] A 1" hole will be drilled as necessary at roof access hatch neck above the high water level to allow for mounting of aluminum conduit body (dry side) to the 1" strain relief (wet side).<ul style="list-style-type: none">○ A 3/8" hole will be drilled in roof access hatch neck to allow to mounting of S.S. eyebolt to secure mixer recovery chain.▪ Physical install of PWM-250 into the tank: Installation assumes the mixer to be installed in the tank while empty and be positioned below the roof access hatch nearest the exterior access ladder. The mixer power cable will be secured (nylon zip ties) at 10'-12' intervals to recovery chain to maintain a neat appearance and limit possible entanglement. Recovery chain will be secured to S.S. eyebolt mounted in sidewall of roof access hatch neck/nozzle.<ul style="list-style-type: none">○ Mixer cable will pass through the strain relief and terminate in an aluminum conduit body.▪ 12 AWG THHN stranded wire (red, black, yellow, green) will be pulled through the 1" PVC conduit from the controller to the conduit body.▪ Mixer wire will be connected to 12 AWG TTHN wire in conduit body via wire nuts.▪ 12 AWG TTHN wire to/from mixer will be connected to the mixer controller per manufacturer's instructions.▪ Measurement of readings will be made to confirm proper mixer operation when mixer is powered on.<ul style="list-style-type: none">○ If power is not supplied to controller at time of installation, mixer operation will not be able to be tested and confirmed. PAX will not be responsible to return and confirm operation of mixer at a later date.▪ Site clean-up of related installation materials.▪ Installation includes conduit, conduit connections, wire, and conduit mountain brackets.▪ If Owner prefers controller to be housed in a location remote (building) from tank, Owner is responsible for any trenching installation, and covering of below grade conduit installed as below:<ul style="list-style-type: none">○ 1" PVC electrical conduit with smooth sweep 90s shall be used○ All conduit bell ends shall face toward controller○ Conduit shall be stubbed above grade no less than 24"○ Conduit shall be oriented vertically to side of ladder no more than 8" from shell access ladder sidestrap○ Stubbed conduit shall exit the ground on side of ladder closet to existing roof access hatch so as conduit does not travel behind ladder at any point○ Conduit will be attached to ladder stand-offs to top of tank○ If controller is to be mounted inside of building, Owner is responsible to ensure sufficient space to accommodate mixer controller and allow adequate ventilation	
26.	Manufacturer's Field Services (1 Day at the Jobsite), including: <ul style="list-style-type: none">▪ Installation Inspection▪ System Start-Up▪ Operator Training	Included
27.	FOB Factory, Vineland, NJ, with Full Freight Allowed to Jobsite, Killeen, TX	Included
	BID PRICE [ITEMS A3, lines 19 – 27]	\$ 49,960

PAX WATER TECHNOLOGIES

A cleanwater1 Company

A4. MCMILLAN MOUNTAIN GST NO. 2

<u>No</u>	<u>Item Description</u>	<u>Qty.</u>
28.	PWM250 Mixer Wet Assembly , including: <ul style="list-style-type: none">Stainless-Steel ballast ball and housingEPDM molded footIntegrated power cableThe ability to function continuously regardless of tank cycles230V Three phase 2 horsepower water-cooled motor powered by the PAX Control Center50 ft stainless-steel installation chain	1
29.	Control Center Dry Assembly with SCADA Compatibility , including: NEMA 4 Enclosure: <ul style="list-style-type: none">Lockable and weather resistantOverall weight of control center 70 lbs.Operating temperature range -4 °F to 129 °F (-20 °C to 55 °C)Green and Red LED Indicator lights to display motor statusWhite LED Indicator light to display powerCooling fan Motor Controller/VFD: <ul style="list-style-type: none">Allen Bradley<u>On-site power requirement: 230VAC single phase</u>VFD Rating: 3 HPHOA SwitchThermal shut-off protection built-inCurrent overload protection built-inSine filterBranch-circuit protection SCADA outputs included: <ul style="list-style-type: none">Digital Output signal indicating motor runningDigital Output signal indicating faultDigital Input/Output signal for remote motor on/offRS-485 or Dry Contact connections4-20mA signal	
30.	Cable 130 ft. , including: <ul style="list-style-type: none">Flat-jacketed 4-conductor	1
31.	Chemical Injection Stems	1
32.	Tank Penetration Accessories <ul style="list-style-type: none">Stainless steel strain relief for 4 wire flat-jacketed cable	1
33.	Submittal and Operation & Maintenance Manual as Follows <ul style="list-style-type: none">Submittals: Qty. One (1) Sent ElectronicallyO&M Manual: Qty. One (1) Hard Copy	Included
34.	Installation Services , including: <ul style="list-style-type: none">Mounting of manufacturer supplied mixer control panel utilizing unistrut to tank riser sidewall (ground level). Unistrut attachment secured to sidewall or Unistrut rack with washered Tapcon screws.Installation of 1" schedule 40 PVC conduit from mixer controller routed up tank riser access ladder with conduit beam clamps (secured to the ladder stand-offs or magnetic mounts in riser tube). Based on tank design, all equipment shall be installed INSIDE the tank.	Included

PAX WATER TECHNOLOGIES

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<u>No</u>	<u>Item Description</u>	<u>Qty.</u>
	<ul style="list-style-type: none">▪ Tank penetration: [if necessary] A 1" hole will be drilled as necessary at roof access hatch neck above the high water level to allow for mounting of aluminum conduit body (dry side) to the 1" strain relief (wet side).<ul style="list-style-type: none">○ A 3/8" hole will be drilled in roof access hatch neck to allow to mounting of S.S. eyebolt to secure mixer recovery chain.▪ Physical install of PWM-250 into the tank: Installation assumes the mixer to be installed in the tank while empty and be positioned below the roof access hatch nearest the exterior access ladder. The mixer power cable will be secured (nylon zip ties) at 10'-12' intervals to recovery chain to maintain a neat appearance and limit possible entanglement. Recovery chain will be secured to S.S. eyebolt mounted in sidewall of roof access hatch neck/nozzle.<ul style="list-style-type: none">○ Mixer cable will pass through the strain relief and terminate in an aluminum conduit body.▪ 12 AWG THHN stranded wire (red, black, yellow, green) will be pulled through the 1" PVC conduit from the controller to the conduit body.▪ Mixer wire will be connected to 12 AWG TTHN wire in conduit body via wire nuts.▪ 12 AWG TTHN wire to/from mixer will be connected to the mixer controller per manufacturer's instructions.▪ Measurement of readings will be made to confirm proper mixer operation when mixer is powered on.<ul style="list-style-type: none">○ If power is not supplied to controller at time of installation, mixer operation will not be able to be tested and confirmed. PAX will not be responsible to return and confirm operation of mixer at a later date.▪ Site clean-up of related installation materials.▪ Installation includes conduit, conduit connections, wire, and conduit mountain brackets.▪ If Owner prefers controller to be housed in a location remote (building) from tank, Owner is responsible for any trenching installation, and covering of below grade conduit installed as below:<ul style="list-style-type: none">○ 1" PVC electrical conduit with smooth sweep 90s shall be used○ All conduit bell ends shall face toward controller○ Conduit shall be stubbed above grade no less than 24"○ Conduit shall be oriented vertically to side of ladder no more than 8" from shell access ladder sidestrap○ Stubbed conduit shall exit the ground on side of ladder closet to existing roof access hatch so as conduit does not travel behind ladder at any point○ Conduit will be attached to ladder stand-offs to top of tank○ If controller is to be mounted inside of building, Owner is responsible to ensure sufficient space to accommodate mixer controller and allow adequate ventilation	
35.	Manufacturer's Field Services (1 Day at the Jobsite), including: <ul style="list-style-type: none">▪ Installation Inspection▪ System Start-Up▪ Operator Training	Included
36.	FOB Factory, Vineland, NJ, with Full Freight Allowed to Jobsite, Killeen, TX	Included
	BID PRICE [ITEMS A4, lines 28 – 36]	\$ 49,960

PAX WATER TECHNOLOGIES

A cleanwater1 Company

No	Item Description	Qty.
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TOTAL BID PRICE [ITEMS A1 – A4, lines 1 – 36]	\$219,280¹
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B. SCOPE OF WORK BY OTHERS

1. Equipment unloading and installation.
2. All civil works, concrete penetrations, concrete work, and concrete pad for equipment.
3. Any underground, trenching, or structural work not explicitly listed under Scope of Work by PAX above.
4. Anchor bolts, seismic restraints, S.S. shackles, and any associated seismic calculations.
5. Heat tracing and insulation of all interconnecting equipment.
6. Any supply or install of room ventilation, air conditioning, lighting, signs, powered vents, water or air heaters, pressure tanks, sinks, showers, drains and/piping, controllers/switches.
7. Any video recording.
8. Installation, supply, or connection of incoming electrical power to control panel or other equipment not explicitly listed under Scope of Work by PAX above.
9. Any safety disconnects or enclosures.
10. Any electrical conduit runs including any below grade conduit supply or installation not explicitly listed under Scope of Work by PAX above.
11. Any tank recoating services, labor, or parts.
12. All electrical conduit, wiring, electrical material, connection, etc. between control panel, SCADA, etc not explicitly listed under Scope of Work by PAX above.
13. Any installation of electrical outlets, inspection, or engineering.
14. Any installation of pull boxes, pipe raceways, sumps, sewer connection, or water supply piping not explicitly listed under Scope of Work by PAX above.
15. Any line locates of any type, radiological/magnetic locates.
16. Any welding.
17. Any tank cleaning or disinfection.
18. Any samples.
19. All taxes, fees, lien waivers, bonds and licenses.
20. Any permitting or regulatory approvals.
21. Any liquidated damages.
22. Supply or installation of lighting fixture, signs, mounting brackets on concrete surfaces or steel surfaces (unless mentioned above), powered vents, water or air heaters, pressure tanks, sinks, showers, drains, and/piping, controllers/switches, existing line locates, training, permits, any below grade conduit supply or installation, installation of pull boxes, pipe raceways, sumps, sewer connection, water supply piping, or tank painting.
23. Any items not explicitly listed under Scope of Work by PAX above.

¹ Price assumes mixer control panel is to be located inside tank riser at ground level. The controller shall be mounted to riser sidewall or shall provide Uni-strut mounting support (for mixer controller only) for the controller utilizing existing foundation whichever is most feasible.

PAX WATER TECHNOLOGIES

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C. CLARIFICATIONS/EXCEPTIONS

1. **PAX will provide the PAX Mixer in the Scope of Supply by PAX above in accordance to PAX's standard specification. PAX takes exception to any deviations outside PAX's standard specification (see Section 4).**
2. **If power is not supplied to controller at time of installation, mixer operation will not be able to be tested and confirmed. PAX will not be responsible to return and confirm operation of mixer at a later date.**
3. Price assumes mixer control panel is to be located inside tank riser at ground level. STCI will mount controller to riser sidewall or shall provide Uni-strut mounting support (for mixer controller only) for the controller utilizing existing foundation whichever is most feasible.
4. PWM250 utilizes stainless steel chain for lowering mechanism.
5. **On-site power requirement to the Control Center of the PAX Mixer is 230VAC single phase.**
6. **Reservoir Low Water Level must be above 6 feet for the PWM250 to mix effectively.**
7. If transaction is tax-exempt, please submit Tax Exemption Certificate to PAX.
8. PAX requires a minimum of two (2) weeks notification prior to performing onsite installation inspection, system start-up and training. PAX will work with you to attempt to accommodate your scheduling needs. Contact the Service Department at (866) 729-6493 to schedule the onsite visit.
9. Once the on-site service has been scheduled, PAX requires a minimum of one (1) week notification in the event of a delay. Notice of delay received less than one (1) week prior to a scheduled site visit may result in a change fee.
10. **If power is not supplied to controller at time of installation, mixer operation will not be able to be tested and confirmed. PAX will not be responsible for returning and confirming operation of mixer at a later date.**

D. TERMS OF PAYMENT/PRICE VALIDITY

- Payment terms are 100% net 30 days after shipment of equipment.
- Price valid for 30 days. PAX may reprice this Proposal thereafter or if delivery occurs more than 365 days after PAX receives a mutually agreed order.

E. DELIVERY

- Submittals: 2 weeks after receipt of mutually agreed order
- Equipment Shipment: 6-7 weeks after approval of submittals

F. WARRANTY

- PAX will warrant the equipment for 5 years as set forth in its standard warranty included in the Terms and Conditions at Section 3 of this Proposal.

PAX WATER TECHNOLOGIES

A cleanwater1 Company

SECTION 2

PROPOSAL ACCEPTANCE

PAX Water Technologies File No.: P24-22266-Rev 2

- 1) This Proposal by PAX Water Technologies ("Seller") is contingent upon the undersigned buyer ("Buyer") executing this Proposal, including without limitation agreeing to the terms and conditions contained in this Proposal.
- 2) Please return a signed copy of this Proposal to:
PAX Water Technologies
550 Sycamore Drive
Milpitas, CA 95035
Attn: Orders
Phone: (510) 550-7100
E-mail: orders@cleanwater1.com

Thank you for your interest in PAX. We are committed to meeting your expectations.

Proposal Acceptance

An authorized signature indicates Buyer's acceptance of this Proposal, including without limitation the Terms and Conditions in Section 3 below.

Company Name

Buyer's Name (printed)

Date

Buyer's Authorized Signature

Requested Arrival Date

Bill To Name: _____	Ship To Name: _____
Bill To Email: _____	Ship To Email: _____
Bill To Phone: _____	Ship To Phone: _____
Bill to Address: _____	Ship to Address: _____
_____ City State Zip	_____ City State Zip

PAX WATER TECHNOLOGIES

A cleanwater1 Company

SECTION 3

TERMS AND CONDITIONS

1. **Applicable Terms.** These terms govern Seller's sale, and Buyer's purchase, of the products and/or services referred to in Seller's proposal or quotation (collectively, the "Products"). The front page of Buyer's purchase order (disregarding any reference to terms and conditions and any provisions that conflict herewith), if any, together with the description of the Products in Seller's proposal or quotation and these terms and conditions comprise the complete and exclusive agreement between the parties (the "Agreement") related to the purchase and sale of the Products. All prior communications, documents, negotiations and representations, if any, are merged herein. Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is conditioned on Buyer's assent to these terms. Any additional, different or conflicting terms contained in Buyer's request for proposal, specifications, purchase order or any other written or oral communication from Buyer shall not be binding in any way on Seller, whether or not they would materially alter this document, and Seller hereby objects thereto. All orders are subject to prior credit approval by Seller.

2. **Pricing.** The prices shall be: (a) as stated in Seller's proposal or order acknowledgment, or (b) if none are stated, Seller's standard prices in effect at the time of release for shipment.

3. **Payment.** Unless otherwise stated, all payments shall be net 30 days from invoice date payable in United States Dollars. If Buyer fails to make any payment to Seller when due, Buyer's entire account(s) with Seller will become immediately due and payable without notice or demand. Buyer will pay 1½% interest per month, compounded monthly, on all amounts not received by the due date. Buyer hereby grants Seller a purchase money security interest in the Products until such time as Seller is fully paid. Buyer will assist Seller in taking action to perfect and protect Seller's security interest. Seller may make partial shipments, in which case, Buyer shall pay for each shipment in accordance with the terms hereof.

4. **Taxes, Shipping, Packing.** Except to the extent expressly stated otherwise in these terms or in Seller's proposal or quotation, prices do not include any freight, storage, insurance, taxes, excises, fees, duties or other government charges, and Buyer shall pay such amounts or reimburse Seller for any such amounts Seller pays. If Buyer claims a tax or other exemption or direct payment permit, it shall provide Seller with a valid exemption certificate or permit and indemnify, defend and hold Seller harmless from any taxes, costs, and penalties arising out of same. Prices include the costs of Seller's standard domestic packing only. Any deviation from standard packing (domestic or export) shall result in extra charges. Any and all increases, changes, adjustments, or surcharges (including fuel surcharges) which may arise in connection with the freight charges, rates or classification included as part of this Agreement, shall be for the Buyer's account.

5. **Delivery.** Products shall be delivered F.O.B. Seller's point of shipment or Ex Works Seller's point of shipment if being delivered outside the United States. All delivery dates are estimated and are dependent in part upon prompt receipt of all necessary information from Buyer, including submittal approvals, if applicable, and all required commercial documentation. Seller will make a good faith effort to complete delivery of the Products on the date and to the location specified in writing by Buyer, but Seller assumes no liability for loss or damage due to delay or inability to deliver, whether or not such loss or damage was made known to Seller. If Buyer causes or requests a shipment delay, or if Seller ships or delivers the Products erroneously as a result of inaccurate, incomplete or misleading information supplied by Buyer or its agents or representatives, storage and all other additional costs and risks will be borne solely by Buyer. Any claims for Products damaged or lost in transit ("Transit Losses") must be made by Buyer to the carrier and reported to Seller within one business day following delivery to Buyer.

6. **Inspection and Acceptance.** Buyer will have seven days from the date Buyer receives any Products to inspect such Products for defects and nonconformance which are not due to Transit Losses, and to notify Seller, in writing, of any defects, nonconformance or rejection of such Products. After such seven-day period, Buyer will be deemed to have irrevocably accepted the Products, if not previously accepted.

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After such acceptance, Buyer will have no right to reject or revoke acceptance of the Products for any reason.

7. Returns and Cancellation. Buyer may not return custom engineered Products. Buyer may return other Products only with Seller's prior written approval, which may be withheld in Seller's sole discretion. Any authorized return will be subject to payment of a restocking charge and will be allowed only if the subject Product: (i) is in new condition, suitable for resale, and (ii) has not been used, installed, modified, altered or damaged. The restocking charge for authorized returns will be no less than (x) 25% of the purchase price, net of any freight charges included in the purchase price, plus (y) 100% of freight costs incurred by Seller. Buyer is responsible for the payment or reimbursement of return freight charges. Returns will be shipped F.O.B. Seller's location. Seller may, but will not be obligated to, treat any cancellation of an accepted order as an authorized return.

8. Force Majeure. Seller will have no liability for any breach caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, delay of carriers, failure of normal sources of supply, act of government, epidemic or other public health crisis, or any other cause beyond Seller's reasonable control.

9. Warranty. Seller warrants to Buyer and the initial end-user of the Product (collectively, the "Owner") for the Warranty Period (as defined below) that each Product is free from defects in material and workmanship and conforms to Seller's specifications applicable to the Product. Seller's warranty is conditioned on (i) Seller's verification of the alleged breach; (ii) the Product being stored, handled, installed, started-up, operated and maintained in accordance with Seller's instructions, (iii) no repairs, modifications or alterations being made to the Product other than by Seller or its authorized representatives, (iv) Owner providing prompt written notice of any warranty claims within the Warranty Period, and (v) at Seller's discretion, Owner either removing and shipping the Product or non-conforming part thereof to Seller, such freight cost to be paid by Seller, or Owner granting Seller access to the Products at all reasonable times and locations to assess the warranty claims. Seller's warranty does not cover damage due to (x) acts of nature or third parties, or (y) ordinary wear and tear.

The sole remedy for any breach of Seller's warranty is limited to Seller's choice of repair or replacement of the Product, or non-conforming parts thereof, F.O.B. jobsite, or refund of the purchase price for the subject Product or part. Seller reserves the right to provide new or reconditioned replacement Products or parts (collectively, "Replacement Items"). The warranty on Replacement Items is limited to the remainder of the original Warranty Period and otherwise subject to the terms of this warranty. This warranty includes labor to install Replacement Items, subject to the following conditions: (a) Seller will reimburse Owner's reasonable, documented labor costs to install the Replacement Items up to an aggregate maximum of \$2,500 over the full Warranty Period; and (b) Seller may elect, but is not obligated, to install the Replacement Items itself, in which case (i) Seller will bear all of its costs of installation; and (ii) Seller's obligations to pay for or provide additional labor under this warranty will be discharged in full. In any event, labor costs of divers and labor costs required to drain the storage tank or reservoir are excluded from this warranty. If Seller determines that any alleged defect or damage is not covered by this warranty, Seller will charge, and Owner will pay, Seller's normal rates for any inspection or repair performed by Seller, and for any materials provided or used in connection therewith.

The "Warranty Period" applicable to each Product begins on the date of installation or three (3) months after shipment, whichever comes first, and continues for 60 months thereafter.

THE WARRANTY SET FORTH IN THIS SECTION IS INTENDED TO BE SELLER'S SOLE AND EXCLUSIVE WARRANTY AND SELLER'S WARRANTY IS SUBJECT TO SECTION 10 BELOW. SELLER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WARRANTIES REGARDING SERVICES RENDERED, IF ANY, OR ANY WARRANTIES THAT MIGHT ARISE FROM COURSE OF DEALING OR USAGE OF TRADE. IF IT IS ALLEGED OR DETERMINED THAT SELLER HAS MADE ANY OTHER WARRANTIES, SUCH OTHER WARRANTIES SHALL BE SUBJECT TO ALL THE CONDITIONS, LIMITATIONS, AND PROCEDURES SET FORTH IN THIS SECTION 9 AND SECTION 10 BELOW.

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10. **LIMITATION OF LIABILITY.** NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE PRODUCTS WILL NOT EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCTS. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY. THE REMEDIES SET FORTH IN THIS AGREEMENT ARE INTENDED TO CONSTITUTE A COMPLETE ALLOCATION OF THE RISKS BETWEEN THE PARTIES, AND BUYER ACKNOWLEDGES THAT IT IS KNOWINGLY LIMITING THE REMEDIES THAT MIGHT OTHERWISE BE AVAILABLE TO BUYER. BECAUSE THIS AGREEMENT AND THE PRICE PAID REFLECT SUCH ALLOCATION, THE REMEDIES PROVIDED TO BUYER HEREUNDER WILL NOT HAVE FAILED OF THEIR ESSENTIAL PURPOSE EVEN IF THEY OPERATE TO BAR RECOVERY FOR CERTAIN DAMAGES THAT BUYER MAY INCUR.

11. **Remedies of Seller.** Any of the following will constitute an event of default which will enable Seller, at its option and without liability to Buyer, to cancel any unexecuted portion of the order that is the subject of this Agreement and to exercise any other right or remedy expressed herein or otherwise available at law or in equity: (i) the failure of Buyer to make any payment required hereunder when due ("Payment Default") or to perform any other term or condition contained herein; (ii) the insolvency of Buyer or its failure to pay its debts as they mature, an assignment by Buyer for the benefit of its creditors, the appointment of a receiver for Buyer or for the materials covered by this Agreement, or the filing of any petition to adjudicate Buyer bankrupt; (iii) a failure by Buyer to provide adequate assurance of performance within ten days after a justified demand by Seller; or (iv) if Seller, in good faith, believes that Buyer's prospect of performance under this Agreement is impaired. Seller's obligations under Section 9 hereof will be suspended during the pendency of any Payment Default. No such suspension will extend Seller's obligations under Section 9 beyond the Warranty Period provided therein. Seller's election of any remedy in the event of a default by Buyer will not preclude Seller from exercising any other remedy available to Seller hereunder or at law or in equity for the same or any other default. In the event it becomes necessary to incur any expense for collection of any overdue account, Seller's collection charges, including attorneys' fees and expenses, will be added to the balance due and Buyer will pay all such charges together with interest thereon from the date incurred in accordance with Section 3.

12. **Equal Employment Opportunity.** Seller is an equal opportunity employer. The parties shall, as applicable, abide by the requirements of 41 CFR 60-1.4(a), 41 CFR 60-300.5(a), 41 CFR 60-741.5(a) and Executive Order 13496 (29 CFR Part 471, Appendix A to Subpart A) (relating to the notice of employee rights under federal labor laws), and these laws and regulations are incorporated herein by reference.

13. **Export Compliance.** Buyer acknowledges that Seller is required to comply with applicable export laws and regulations relating to the sale, export, transfer, assignment, disposal, and use of the Products provided under this Agreement, including any export license requirements. Buyer agrees that such Products shall not at any time directly or indirectly be used, exported, sold, transferred, assigned, or otherwise disposed of in a manner which will result in non-compliance with such export laws and regulations. It shall be a condition of the continuing performance by Seller of its obligations hereunder that compliance with such export laws and regulations be maintained at all times. BUYER WILL INDEMNIFY, DEFEND AND HOLD SELLER HARMLESS FROM ANY AND ALL COSTS, LIABILITIES, PENALTIES, SANCTIONS AND FINES RELATED TO NON-COMPLIANCE WITH APPLICABLE EXPORT LAWS AND REGULATIONS.

14. **Miscellaneous.** No part of this Agreement may be changed or cancelled except by a written document signed by Seller and Buyer. As used in this Agreement, "including" and its variants mean "including without limitation" and its variants. No course of dealing or performance, usage of trade, or failure to enforce any term will be used to modify the Agreement. Buyer acknowledges that it has not relied upon any letters of intent, agreements, promises, negotiations, statements or representations other than those expressly set forth in this Agreement and that no such extraneous document or other communication shall be of any force or effect. Buyer agrees and warrants that in entering into this

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Agreement, Buyer is relying solely upon the information contained in this Agreement and not in reliance upon any other information. If any of these terms is unenforceable, such term will be limited only to the extent necessary to make it enforceable, and all other terms will remain in full force and effect. Buyer may not assign this Agreement without Seller's prior written consent. This Agreement will be governed by the laws of the State of California without regard to its conflict of laws provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is excluded. Any bond issued by Seller in connection with the sale of the Products shall remain in effect for a maximum of two (2) years after acceptance of the Products, and the only warranty, guaranty or Product performance obligations covered thereby shall be those at Section 9 above. Buyer covenants to return any such bond to Seller upon the earlier to occur of (x) the expiration of the Warranty Period, and (y) the expiration of the aforesaid two-year period. All Product performance obligations of Seller are contingent on the conditions of and within the tank in which the Products are installed being as specified by Seller and will be considered satisfied and discharged upon successful completion of the initial Product performance testing. EACH OF THE PARTIES IRREVOCABLY AND UNCONDITIONALLY WAIVES ITS RIGHT TO TRIAL BY JURY IN RESPECT OF ANY LEGAL PROCEEDING DIRECTLY OR INDIRECTLY ARISING IN CONNECTION WITH THE TRANSACTION CONTEMPLATED HEREBY.

Rev Date 03.25.22

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SECTION 4

TECHNICAL INFORMATION PAX PWM250 MIXERS

**[DRINKING WATER MASTER SPECIFICATION]
SUBMERSIBLE MIXER
[PROJECT TITLE]
SECTION 11220**

PART 1 – GENERAL

1.1 SCOPE

- A. This section covers submersible tank mixing systems up to 2.0 HP in size intended for continuous use while submersed in potable water storage tanks. Each mixer shall have the ability to function continuously on a year-round basis, regardless of drain and fill cycles. Each mixer shall consist of a water-filled submersible motor, a nozzle mounted on a submersible stainless-steel casing, and a non-submersible control center that houses all control electronics.

1.2 THE REQUIREMENT

- A. CONTRACTOR shall furnish a PWM250V3 PAX Mixer with a PCC255V3 PAX Control Center and install submersible mixing system together with controls and accessories necessary for a complete and operable system.
- B. UTILITY shall furnish electrical conduit with 230VAC Single Phase voltage and a 20 Amp non-GFCI circuit breaker up to the point of installation of the mixing system utilizing a PAX control center.
- C. UTILITY shall also provide conduit from control center to tank penetration for submersible motor cable and penetration through tank for same cable.

1.3 REFERENCE SPECIFICATIONS, CODES AND STANDARDS

- A. Comply with the applicable reference specifications as specified in the General Requirements
- B. Occupational Safety and Health Administration, OSHA
- C. NSF/ ANSI Standard 61
- D. Underwriters Laboratories Inc., UL 508

1.4 CONTRACTOR SUBMITTALS

- A. NSF Certification
 - 1. Copies of the NSF-61 certified listing for all material being placed inside the tank and headspace, including the motor and power cable.
- B. Installation, Operations, and Maintenance Manuals shall be obtained from the equipment manufacturer and submitted. The following sections shall be included:
 - 1. General equipment specifications and data sheets
 - 2. Installation, start-up, operation, and maintenance instructions
 - 3. Factory-recommended maintenance schedule
 - 4. Wiring diagrams specifying what electrical wiring needs to be done onsite during and prior to the installation, and by which responsible party
 - 5. List of equipment or tooling necessary for diagnostics, troubleshooting, repair or general maintenance

1.5 QUALITY ASSURANCE

- A. Each mixing system shall be tested prior to deployment according to the manufacturer's standard factory testing practices at the factory testing facilities.
- B. Complete mixing system is NSF/ANSI Standard 61 certified.

1.6 WARRANTY

- A. For the period beginning with installation or 3 months after shipment to Buyer, whichever is earlier and ending 60 months thereafter, the mixer, including its associated controller, is warranted to be free from defects in material and workmanship and to conform to Seller's specification applicable to the product –

PART 2 – PRODUCTS

2.1 PERFORMANCE

- A. Mixing system shall completely mix reservoir according to the following minimum performance requirements. These requirements can be measured and validated after installation by operators with readily available tools such as temperature probes and total chlorine grab samplers.
1. Temperature Uniformity
For tanks up to 2,000,000 gallons in volume: All temperatures shall converge to within 0.50°C within 24 hours after mixer is installed and activated.
 2. Disinfectant Residual Uniformity
For tanks up to 2,000,000 gallons in volume: Disinfectant residual within top five feet of tank and bottom five feet of tank will converge to within 0.20 ppm within 24 hours after mixer is installed and activated. During continuous operation of the mixer, disinfectant residual will converge to within 0.20 ppm at least once every 24 hours.

2.2 GENERAL

- A. Mixing system consists of a nozzle mounted in a submersible stainless-steel casing. System is lowered to the tank floor and creates a vortical flow pattern inside the tank. Devices with an externally mounted pump shall not be acceptable. Mixer operation shall be independent of tank drain and fill cycles to ensure constant mixing. Mixer shall weigh less than 60 pounds (~ 27kg) and be able to be hoisted, installed, and/or removed by on-site personnel without additional equipment needed, and so that there is no crush hazard or entanglement hazard present, and so that weight of mixer on tank floor does not cause damage to interior coating.
- B. Mixing system inlet shall be elevated at a minimum of 6 inches above tank floor to avoid disturbing accumulated tank sediment or entraining particles and causing accelerated wear of moving parts.
- C. Mixers using submersible pump with slit or “water sheet” or horizontal motor mounting designs are not acceptable.
- D. Mixers shall include a buoyancy mechanism to keep nozzle pointing upright no matter the angle of the tank floor
- E. Mixers shall include integrated chain as a lowering mechanism for simplicity
- F. Mixer provider must have more than 1000 installation of similar equipment in potable water tanks or reservoirs.
- G. Mixers shall have no oil-filled parts
- H. All wet-side mixer components shall be certified to the NSF/ANSI Standard 61
- I. Dry-side mixer components shall include sine filter to prolong motor life and reduce noise level.
- J. Power source for mixer shall be 230VAC single phase grid power to allow unit to continue 24/7 operation.
- K. No regular, periodic maintenance required on the wet-side components in typical potable water application
- L. No passive mixing system allowed.

2.3 CONSTRUCTION

- A. Components – wet-side: shall be NSF/ANSI Standard 61 certified.

Equipment entering tank shall not adhere to, scratch or otherwise cause damage to internal tank coating or put undue stress on the materials of the tank construction. Equipment shall fit through a standard hatch of size 18” x18” or larger. UTILITY may prefer to puncture sidewall or ceiling of tank (in place of penetrating the hatchway) to allow motor cable entry into the tank and protection against freezing/ice damage.

Each submersible mixer shall consist of the following components, regardless of the power source selected:

1. Nozzle
AISI Type 316 Stainless Steel
2. Nozzle housing
AISI Type 316 Stainless Steel
Brush finish to minimize surface corrosion
Buoyancy mechanism to keep nozzle pointing upright no matter the angle of the tank floor
Chlorine/chloramine resistant rubber foot pad to avoid scratching tank floor
Integrated power cable and lowering mechanism for simplicity
3. Motor
Stainless Steel 304 body
Chlorine/Chloramine resistant rubber seals

Fully submersible

B. Components – dry-side: 230VAC control center shall consist of the following components:

1. Enclosure
 - Type 4 (NEMA 4) Lockable
 - Weather Resistant
 - Overall weight of control center not to exceed 70 lbs.
 - Green and Red LED Indicator lights show motor status
 - White Power Indicator Led
 - Cooling Fan
2. Motor Controller/VFD
 - Rated to 3.0 HP
 - Operating temperature range -4 °F to 129 °F (-20 °C to 54 °C)
 - HOA Switch
 - Manual speed control
 - Thermal shut-off protection built-in
 - Current overload protection built-in
 - SCADA outputs included:
 - Digital Output signal indicating motor running
 - Digital Output signal indicating fault
 - Digital Input/output signal allowing remote motor on/off
 - RS-485 or Dry Contact connections
 - 4-20mA Signal
3. Panel equipped with a 230VAC 20-Amp main breaker
4. Sine Filter

2.4 CONTROLS

- A. Each unit shall be equipped with all necessary controls, inter-wired, to provide the following minimum functions:
1. On/Off switch to control power to mixer.
 2. Automatically activated motor shut-off if water level drops below motor height in tank.
 3. Sine filter
 4. Any other controls shown on electrical and instrumentation drawings

2.5 ACCEPTABLE MANUFACTURERS:

- A. PAX Water Technologies (Milpitas, California)

PART 3 – EXECUTION

3.1 INSTALLATION

- A. The CONTRACTOR shall furnish services of a factory-trained installation contractor or crew having experience with installation procedures and operation and maintenance requirements for the type of equipment installed under these specifications. Mixer must be able to be installed through an 18x18 inch hatch. Mixer must be able to be installed without draining tank or taking tank out of service. Wet-side of Mixer shall weigh less than 60 pounds (~27 kg) and dry-side shall weigh less than 70 pounds (~32 kg). Both wet-side and dry-side shall be able to be hoisted, installed, and/or removed by on-site personnel without additional equipment needed, and so that there is no crush hazard or entanglement hazard present, and so that weight of mixer on tank floor does not cause damage to interior coating.
- B. Tank penetration is recommended to be above tank water line, typically through the hatch sidewall.
 - 1. Fitting will prevent moisture intrusion into tank and ideally be horizontally oriented.
 - 2. Fitting shall be 1-inch diameter fitting to allow cable to pass through.
 - 3. Strain relief for power cable shall be part of the contractor-supplied fitting for tanks more than 30 feet in depth.
 - 4. For tanks more than 70 feet in depth, or at customer's discretion, a water-tight penetration may be installed under the waterline.
- C. Installation of the in-tank ("wet-side") components may be performed in any of the following ways
 - 1. Installation below a hatch opening in a full tank utilizing the Mixer power cord.
 - 2. Installation by personnel with confined space training while the tank is drained and empty.
 - 3. Installation by tank manufacturer personnel during tank manufacture.
- D. Installation of the outside-of-tank ("dry-side") components may be performed by:
 - 1. Third party representatives or CONTRACTORS according to the manual provided.
 - 2. UTILITY personnel according to the manual provided
- E. The mixer and control center shall be installed in accordance with approved procedures submitted and Manufacturer's instructions supplied, unless otherwise approved in writing from the Manufacturer.

3.2 TRAINING

- A. PAX Water Technologies staff (or their representatives) will instruct designated UTILITY personnel in the safe and proper operation of the PAX Water Mixer. This training will reference the operations manual provided with equipment and show how to check for proper functioning of the equipment.