



**QUOTATION & TERMS AND CONDITIONS  
FOR  
Surface Aeration Upgrade for Hollywood WWTP UNOX  
Quote File # 07w-22-0414AR3  
02-28-2028**

<b>SCOPE OF SUPPLY</b>
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Arroyo is pleased to offer, under the enclosed terms and conditions of sale, the following equipment. Our offer is based upon our interpretation of your request for quotation. Arroyo reserves the right to alter or adjust this quotation as necessary to meet the project requirements.

DESCRIPTION of scope: **This is for Train # 3 & 4, UNOX**

**Item 1:      Anoxic / Mixer Train 4 Stage 1**

Qty:                      1                      **Hollywood Location: 13**

Mixer Model:      **New Hanson** M2T / LAR-120 AL Hanson QVPE3-UDM-31.5 38rpm O/P, parallel shaft. Rated for 133hp mechanical 136 thermal Hp,  
Motor:              **New** Weg 60Hp, 1200RPM, 404TC, 460V, TEFC, Premium Eff. Chemical Duty w/ Rain Guard  
H/S Coupling:      **New Love Joy** Flex grid style H/S Coupling, Includes safety guards  
Gearbox:           **New** LAR-120 AL Hanson E-size, 31.5:1 ratio, triple reduction, Parallel Shaft gearbox.  
Output Speed:    38 RPM nominal  
Mounting:         **Modified** Existing mounting plate/beam assembly will be sandblasted internal coting to be Carboline Plasite 4500S (35-45Mils) Top coat to be Sherwin Williams 2436 (6-9mils) New gearbox mounting plate.. To be welded to existing beams.  
Motor Mtg:        **New** Motor Mounting pot to mate with 404TC frame  
Seal:                **New** Rotating portion of the Vapor seal 316 ss. Repair leaking stationary portions of vapor seals  
Wetted Parts:    316 stainless steel  
Paint:                Sherwin Williams 2436  
Shaft Length:    **New** 261 inches (from mounting surface) w/ new double keyway In-tank Shaft 5.5" diameter upper with 3" for lower section.  
Lower Impeller: **New** M2T 54" fiber free 4-blade impeller C/W rotation up pumping, (Duplicate to existing)  
Upper Impeller: **New** M2T 75" Type 1.5 4-blade impeller C/W rotation up pumping (Duplicate to existing)  
Imp. Location:    Upper adjustable in 1" increments for 24" Lower Adjustable in 3" increments for 18"

**Price each for Stage # 1 ...(1-Required) .....\$ 144,316.00**



**Item 2: Mechanical Surface Aerator Train 3 Stage 2**

Qty: 1 **Hollywood Location: 10**

Mixer Model: **New Hanson** M2T / LAR-100 AL Hanson QVPEC3-UDM-31.5 56rpm O/P, parallel shaft. Rated for 70hp mechanical 86 thermal Hp,

Motor: **New** Weg 40Hp, 1800RPM, 324TC, 460V, TEFC, Premium Eff. Chemical Duty w/ Rain Guard

H/S Coupling: **New Love Joy** Flex grid style H/S Coupling, Includes safety guards

Gearbox: **New** LAR-100 AL Hanson C-size, 31.5:1 ratio, triple reduction, Parallel Shaft gearbox.

Output Speed: 56 RPM nominal

Mounting: **Modified** Existing mounting plate/beam assembly will be sandblasted internal coting to be Carboline Plasite 4500S (35-45Mils) Top coat to be Sherwin Williams 2436 (6-9mils) New gearbox mounting plate.. To be welded to existing beams.

Motor Mtg: **New** Motor Mounting pot to mate with 324TC frame

Seal: **New** Rotating portion of the Vapor seal 316 ss.

Wetted Parts: 316 stainless steel

Paint: Sherwin Williams 2436

Shaft Length: **New** 258 inches (from mounting surface) w/ new double keyway In-tank Shaft 5.5" diameter upper with 3" for lower section.

Lower Impeller: **New** M2T 48" fiber free 4-blade impeller C/W rotation up pumping, (Duplicate to existing)

Upper Impeller: **Use existing**

Imp. Location: Upper adjustable in 1" increments for 24" Lower Adjustable in 3" increments for 18"

**Price each for Stage # 2... (1-Required) .....\$ 94,280.00**



**Item 3: Installation Services:**

**1<sup>st</sup>. Mobilization**

- Mobilization to job site.
- Disassembly of Train 4 Stage 1 & Train 3 Stage 2 units
- Crane services to remove drives, motors, shafts, impellers, and bases from Unox train.
- Load bases on our Arroyo truck to return to our facility to perform modifications and coatings listed above.
- Repair leaking stationary section of vapor seals Train 4 Stage 2,3,&4. Repair will be a best possible in location repair. A like new repair is not possible without complete disassembly of unit.
- Supply safety barriers enclosing open tank compartments with caution labeling and signage.
- Remove old units and materials from job site.
- Clean up job site.
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**2<sup>nd</sup> . Mobilization**

- Mobilization to job site.
- Return sub-assembled drives, shafts, and impellers. On Arroyo truck.
- Supply Crane services.
- Remove safety barricades.
- Assemble mounting bases, shafts, impellers, drives and motors.
- Set impellers for correct submergence.
- Supply and install new UHMW interlocking tank lid gaskets.
- Seal each base to tank tops and gaskets with silicone sealant.
- Arroyo will fill units with Hollywood supplied oil if you request.
- Clean up and police jobsite.

**3<sup>rd</sup> . Mobilization**

- Return to job site after electrical hook up and unit lubrication is completed.
- Perform start-up and commissioning services.
- After complete equipment will be turned over to City of Hollywood.

**Total Price for Installation Services Train #3 Stage 2 and Train 4 Stage 1**  
**Removal and installation .....\$ 44,400.00**



**INCLUDED in this proposal:**

1. M2T's & Arroyo's mechanical and performance warranties (see below).
2. Proposal is quoted Ex-Works with freight included; any revision requires appropriate cost adder.
3. Commissioning reports.
4. Extended warranty with installation, start-up and commissioning services supplied by M2T & Arroyo

**SPECIFICALLY EXCLUDED from this proposal:**

1. Oil and other lubricants. (Arroyo will fill with Oil if it is supplied at time of installation)
2. Mixer mounting base beam assembly, anchor bolts, motor starters, electrical controls, electrical power, electrical disconnect or connections, instrumentation controls, and wiring of any kind or any item not specifically included in the scope above. Unless those items specifically included.
3. Unloading and installation are excluded unless specifically named in the quote.
4. Spare parts for the aerators are excluded unless specifically named in the quote.
5. Storage of any kind. Unless specifically included.
6. Field-testing and services not specifically listed in this proposal.

**TECHNICAL / MECHANICAL EXCEPTIONS and clarifications to specification:**

1. This quote is at today's pricing of 316Lss alloy.  
Due to the significant changes in market price, the price for the stainless steel items are guaranteed until March 31, 2023.

<b>CLARIFICATIONS</b>
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1. M2T / Arroyo request the use of Hollywood's mixer stand and man lift to disassemble and assemble units.
2. This is a quote for all new replacement with the exception of the mounting base.
3. The proposed gear drives and impellers are manufactured by M2T Lotepro / Hanson.  
The same manufacturer of all of the Unox and Union Carbide Systems.
4. Shafts & Impellers will be identical to those presently used on train 5. New drive units will be identical to the new drives presently operating in train 5 stage 2 and to be installed in train 5 stage 4
5. All motors are Premium Eff. Severe/Chemical duty, Inverter ready (10:1) 3-year warranty.  
They will be Cast Iron construction, including the fan cover, a rain guard will be added for protection.
6. Stage 1 motors were two speed. I understand you only use the low speed. I quote stage 1 with a single speed 1180rpm Motor. Two speed motors are special order and very expensive. If you wish a two speed motor can be supplied at an



added cost.

## SUBMITTALS

None Required.

## DELIVERY TERMS

Delivery terms are FOB Destination, Freight Allowed. The anticipated schedule follows:

<u>P.O. received:</u>	TBD
<u>Assembly drawings:</u>	2-4 wk. after acceptance of P.O.
<u>Manufacturing:</u>	24-26 weeks from release to manufacture.
<u>Ship:</u>	26-28 weeks from receipt of order and release to manufacture.

<u>Start of Warranty</u>	Is within six months of delivery.
<u>End of Warranty</u>	12 Months after installation or not to exceed 18 months from shipment, whichever is sooner.
<u>Extended Warranty</u>	12 Months additional with M2T / Arroyo Installation services and commissioning report.

## STORAGE

All units will be delivered in preparation of long-term storage.  
Should storage be required; reducers, drives, motors, shafts and impellers must be stored in a climate controlled facility. Recommended storage procedures will be provided by Arroyo upon request.

## PAYMENT TERMS

Make Order To:  
*Arroyo Process Equip. Co.*  
*1550 Centennial Blvd.*  
*Bartow, Fl. 33830*



**Terms Net 30**