MgWater
MgOPS System | Operational Performance System

March 8, 2022

Purchasing Department
City of Prosper, TX
Prosper, TX

Dear Frank,

Thank you for the opportunity to provide the City of Prosper pricing on our Thioguard product (Magnesium Hydroxide). As discussed, we welcome holding our pricing to match NTMWD at $2.95/gallon. This pricing is for full truck loads at approximately 3500 gallons per load. Please note that once set up in our system the lead time on integrating you into our schedule is 7-10 business days. Listed below is our standard specification that is provided in every load of our product. Each load will include a bill of lading as well as a laboratory report for that specific load.

| | Typical | Maximum | Minimum |
|---|---|---|---|
| **Slurry Basis:** | | | |
| $Mg(OH)_2$ contained lb/dry Gallon | 7.7 | 8.0 | 7.5 |
| **Dry Solids Basis:** | | | |
| MgO, wt% | 98.7 | | 98.5 |
| CaO, wt% | 0.6 | 0.8 | |
| $SiO_2$, wt% | .20 | .35 | |
| $Fe_2O_3$, wt% | .10 | .21 | |
| Acid Insolubles, wt% | .3 | 1.0 | |
| Median Particle Size, Micron | 3.0 | 6.0 | 1.0 |
| Specific Surface Area, $m^2/g$ | 10 | 20 | 9 |
| Acres/Gallon | 3.21 | 3.5 | 3.0 |
| Lbs. Alkalinity/Gallon | 13.0 | 14.0 | 12.0 |
| Caustic Magnesia Activity/Sec | 200 | 250 | |
| Timed Liquid/Solid Settlometer Test, Colloidal Suspension mL/48 hours | 248.0 | 240.0 | 250.0 |
| Stabilized Residual Test, Grams | 1.0 | 4.0 | |
| Caustic Soda (NaOH) Equivalent | 1 lb Equivalent to .73 lb Mg(OH)2 | | |
| Soda Ash ($Na_2CO_3$) Equivalent | 1 lb Equivalent to .55 lb Mg(OH)2 | | |
| Physical Properties: | | | |
| Density, lbs./gal. | 13.0 | 13.2 | 12.72 |
| Solids, Weight Percent % | 61 | 62 | 60 |
| Viscosity, cps | 150 | 300 | 100 |
| % Passing -325 Mesh Sieve | 99.6 | 100 | 99.0 |
| Certifications: | | | |
| ISO 9001:2008 – ANSI/ISO/ASQ Q9001-2008 Certified Distribution, Sales, and Manufacture of periclase and technical grades of magnesium oxide and hydroxide products. | | | |

Please see the specifications of our product listed below as well as additional services offered that you may be interested in.

MgWater

PREMIER MAGNESIA, LLC

MgWater

MgOPS System | Operational Performance System

Please let me know if you have any questions.

Steven LeBlanc

Premier Magnesia LLC

By offering a holistic system management through our MgPaaS System we offer:

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MgWater

PREMIER MAGNESIA, LLC

- Consulting Services: a global/domestic leader in optimizing performance of water and wastewater facilities with the use of magnesia
- Asset Protection
- Odor Control
- Nutrient Management / Recovery
- Biosolids Processing and Reuse
- Energy Recovery / Optimization

## Thioguard Product

The following information will provide a detailed view of not only our Thioguard product but also our general specifications that we offer insuring that the City of Fort Worth receives only the highest quality of magnesium hydroxide available within the United States.

XXXX AUTHORITY

PURCHASE SPECIFICATION

FOR

TECHNICAL GRADE MAGNESIUM HYDROXIDE SLURRY PRODUCED AND DERIVED FROM MAGNESIUM CHLORIDE BRINE AND EQUIPMENT INSTALLATION

FOR MUNCIPAL BIOLOGICAL WASTEWATER TREATMENT PLANTS

1) SCOPE AND CLASSIFICATION
   a) Scope

(a) Biological municipal wastewater treatment requires substantial vender experience when
(b) Wastewater treatment is performed in a sensitive biological environment wherein operation is performed at near-neutral or slightly alkaline conditions, requiring the highest reactive technical grade magnesium hydroxide derived from magnesium chloride brine available, to provide active buffering at an optimal operational pH.

(c) Lower reactive grades are incapable of sufficiently neutralizing the acid generated in these environments and will pass through the system unused resulting in settling and damage in sensitive mechanical processes as well as decreased biological performance to meet permitted discharge requirements.

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(d) The specific application of a technical grade magnesium hydroxide derived from magnesium chloride brine within neutral pH municipal wastewater must be manufactured to exacting particle size, specific surface area and particle size distribution to provide the highest reactivity within the biological treatment process and to maintain proper stability within the treatment process as well as product stability required for transportation, pumping and handling prior to entry into the biological treatment process.

(e) This specification establishes the minimum requirements for a 60-month supply agreement for the technical grade magnesium hydroxide

slurry produced and derived from highly reactive magnesium chloride brine and the installation of equipment (tanks, pump, and pipe) for dosing of technical grade magnesium hydroxide slurry into the wastewater collection system and treatment process. This product is used to control odor, reduce corrosion, reduce collection system gas binding and to maintain minimum alkalinity levels for the nitrification process. This specification establishes the minimum requirements for a 12-month annual supply agreement with (4) four subsequent (1) one-year evergreen contract periods and includes following sections on Scope and Classification, Applicable Specifications, Material and Contractor Requirements, Delivery Requirements, and Invoicing Requirements. Each annual evergreen renewal shall be subject to pricing adjustments not to exceed an increase of X% annually.

b) Classification

(a) The installation and service will be located at the following XXXX location(s): *WRF location, City, State, Zip*

(b) This specification, until revised or rescinded, shall apply to each future purchase and contract for the technical grade magnesium hydroxide derived from magnesium chloride brine described herein. Retain for future use.

2) QUANTITY OF WORK

a) Quantity of Work. There is no guaranteed quantity of work for the period of the Contract, and there are no minimum order quantities. Each truckload order will be full truckload quantities or no less than 3,500 gallons per truckload order. Work will be on an as needed basis as specified by the City for each Delivery Order. Estimated total annual dry tons for all ship to locations is estimated to be X dry tons/year.

3) ENVIRONMENTAL AND SAFETY

a) The Contractor shall be responsible for complying with all Federal and State of XXXX standards, including but not limited to, regulations and laws concerning this type of service, including EPA standards. This also includes XXXX AUTHORITY ordinances and regulations.

4) MATERIAL SPECIFICATIONS AND CONTRACTOR REQUIREMENTS

a) Material Specifications

(a) The Contractor shall at a minimum meet the following Typical specifications in Table 1A directly below as well as the Technical Requirements in section (b) i through (b) xiii below. The Contractor shall provide with the bid submittal written specifications for the product bid that meet all the minimum specifications listed in the Table 1A below. All the specifications listed in Table 1A will require the Contractor shall provide with the bid submittal certified 3rd party laboratory testing results to ensure all the Typical specifications and Certifications listed in Table 1A are achieved. If the written specifications and certified 3rd party laboratory testing documentation is not provided at time of bid submittal, the bid will be disqualified.

Table 1A:

| | Typical | Maximum | Minimum |
|---|---|---|---|
| **Slurry Basis:** | | | |
| $Mg(OH)_2$ contained lb/dry Gallon | 7.7 | 8.0 | 7.5 |
| **Dry Solids Basis:** | | | |
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| % Passing -325 Mesh Sieve | 99.6 | 100 | 99.0 |
| Certifications: | | | |
| ISO 9001:2008 – ANSI/ISO/ASQ Q9001-2008 Certified Distribution, Sales, and Manufacture of periclase and technical grades of magnesium oxide and hydroxide products. | | | |

(b) To be considered, the technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine must also meet the following specifications, which shall be confirmed by a written analysis and submitted with the bid submittal. Bid submittal will not be considered complete without requested documentation. If documentation is not provided at the time of bid submittal, the bid will be disqualified. The following specifications and verifications must be provided with the bid submittal:

(i) Proof of Origination:

1. The technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine must be produced and derived from highly reactive magnesium chloride brine for consistent product sizing, uniformity, reactivity, and highest purity. This requirement is utilized to

provide consistent performance, better dispersion, and suspension stability. Proof of origination of the technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine shall require the contractor to provide a written description of the method confirming how the technical grade magnesium hydroxide slurry produced is derived from highly reactive magnesium chloride brine with the bid submittal

(ii) ISO Certification:

1. The AUTHORITY will only accept bids from the Contractor for the technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine submitted with this bid that has been certified and maintains ISO 9001:2008 – ANSI/ISO/ASASQ Q9001-2008 registration. ISO 9001:2008 Certificate of Registration helps ensures customers receive consistent, high-quality products and services as specified in the bid. Contractor shall provide ISO 9001:2008 – ANSI/ISO/ASQ Q9001-2008 Certified Distribution, Sales, and Manufacture of periclase and technical grades of magnesium oxide and magnesium products

(iii) Made in the USA Provision:

1. The technical grade magnesium hydroxide slurry must be produced and derived from highly reactive magnesium chloride brine that originates and is manufactured in the United States. Proof of origination of the technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine shall require the contractor to provide the written street address, town, state, zip code, contact name, and contact name telephone number at the manufacturing location address with the bid submittal

*(iv)* Minimum 98.5% MgO Purity:

1. The technical grade magnesium hydroxide slurry shall have a minimum MgO dry weight percent purity of 98.5% or greater to ensure high-grade consistency, sufficient surface area, reactivity, and maximum alkalinity within the municipal wastewater. This requirement guarantees to minimize non-reactive insolubles and CaO calcium carbonate waste sludge. Contractor shall confirm this requirement by providing written analysis performed by certified 3rd party laboratory with the bid submittal

(v) Minimum 98.5% MgO Purity per Gallon:

1. The technical grade magnesium hydroxide slurry shall have a minimum 7.5 pounds per gallon of a minimum 98.5% MgO dry weight percent purity to insure a minimum reactive solids content per gallon, consistent sufficient surface area, and reactivity within the municipal wastewater. Contractor shall confirm this requirement by providing written analysis performed by certified 3rd party laboratory with the bid submittal

(vi) Micron Size:

1. The technical grade magnesium hydroxide slurry shall have a median particle size no greater than 6.0 microns in order to insure sufficient surface area and reactivity within the municipal wastewater. Contractor shall confirm this requirement by providing written analysis performed by certified 3rd party laboratory with the bid submittal

(vii) Minimum Alkalinity per Gallon:

1. The technical grade magnesium hydroxide slurry shall have a minimum alkalinity per gallon of 12.0 lbs. per gallon in order to ensure sufficient capacity to neutralize acid within the municipal wastewater and wastewater infrastructure. Contractor shall confirm this requirement by providing written analysis performed by certified 3rd party laboratory with the bid submittal

(viii) Specific Surface Area:

1. The technical grade magnesium hydroxide slurry shall have a specific surface area, $m^2/g$ of no less than 9 square meters per gram in order to insure sufficient surface area and reactivity within the municipal wastewater. Contractor shall confirm this requirement by providing written analysis performed by certified 3rd party laboratory with the bid submittal

(ix) Reactivity:

1. The technical grade magnesium hydroxide slurry shall have a Caustic Magnesia Activity/Sec no greater than 250 seconds in order to ensure sufficient MgO wt% purity, alkalinity, surface area and reactivity within the municipal treatment plant. Contractor shall confirm this requirement by providing written analysis with the bid submittal

(x) Stabilized Residual:

1. The technical grade magnesium hydroxide slurry shall have a Stabilized Residual Test result in grams of less than or equal to 4.0 grams to prevent feed tank handling and wastewater treatment plant problems associated with instability of low-grade magnesium hydroxide slurry produced from uncalcined brucite, uncalcined dolimite, dolime, brucitic marble, or any caustic-enhanced or lime-enhanced versions of the former. Contractor shall confirm this requirement by providing written analysis with the bid submittal

(xi) Maximum Allowable CaO:

1. The technical grade magnesium hydroxide slurry shall be capable of cost-effectively providing non-carbonate alkalinity for biological treatment plant processes. The percent by weight of the Contractor's magnesium hydroxide slurry shall not exceed 1.0% by weight of CaO. This requirement is to prevent water softening and to prevent the precipitation of magnesium and calcium that results in sludge production and reduced reactivity / reduced alkalinity. EPA Wastewater Technology Fact Sheet 832-F-00-018 states: "The addition of treatment chemicals, especially lime, may increase the volume a waste sludge up to 50%". Contractor shall confirm this requirement by providing written analysis performed by certified 3rd party laboratory with the bid submittal

(xii) Timed Liquid/Solid Settleometer Test:

1. The technical grade magnesium hydroxide slurry shall a maximum settling of colloidal suspension of technical grade magnesium hydroxide slurry within a 250 mL graduated cylinder over the course of 48 hours of 10 mL or a maximum settling from 250 mL to no lower than 240 mL. Settling of material requires more energy and effort to maintain uniformity, flowability and pumpability. The same is true in wastewater treatment processes, such as aeration basins and channels where even sufficient mixing may lead to accumulation of unreacted non-technical magnesium hydroxide. If added

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upstream, unreacted non-technical magnesium hydroxide may fail to reach the Biological processes where alkalinity is needed.

(xiii) Solids Weight Percent:

1. The technical grade magnesium hydroxide slurry shall have a minimum solids weight percent of 60% to ensure the minimum percent of reactive solids is present

5) CONTRACTOR REQUIREMENTS

a) The Contractor shall provide the following information as part of their bid package response. The bid package will not be considered complete without all of the following information submitted as part of the package. Bid packages that do not contain all of the requested items listed below will be disqualified from consideration. The bidder is required to provide:

b) Magnesium hydroxide slurry produced or derived from uncalcined brucite, uncalcined dolimite, dolime, brucitic marble, or any caustic-enhanced or lime/calcium carbonate-enhanced versions of the former are not compliant with this bid and will not be accepted.

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c) The Contractor's is required to have a distribution terminal within 25 miles of the facility located at City, State, Zip.

d) The Contractor distribution center shall have a minimum technical grade magnesium hydroxide slurry inventory at the distribution terminal as specified in Table 1A of 60,000 gallons at all times to ensure adequate supply in case of weather-related / force majeure events that impede transportation and delivery.

e) The Contractor must supply with the bid submittal a current and valid Material Safety Data Sheet (MSDS) for the technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine. The MSDS must include a CAS number for the product.

f) The Contractor must submit a written company background/history and qualifications with the bid submittal.

g) The Contractor must submit written complete engineering specifications that detail equipment being provided with the bid submittal.

h) The Contractor must submit with the bid submittal a minimum of four (4) municipal biological wastewater treatment plant with references in the State(s) of Texas to whom they currently supply technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine including:

(1) Name and address of the municipal biological wastewater treatment plant
(2) Contact person name
(3) Contact person phone number and email address
(4) Current application location of product within biological wastewater treatment process
(5) Each of the four (4) municipal biological wastewater treatment plant must have an average daily treatment rate of greater than 5 million gallons treated per day.

6) EQUIPMENT REQUIREMENTS:

a) The OWNER will require the selected SUPPLIER to provide and install, but not limited to, the following at all sites:

(1) Chemical storage tank(s) consistent with magnesium hydroxide industry standard features

regarding materials of construction, overflows, vents, mixers, etc.

(a) Chemical storage tank mixing system with an output signal to OWNER'S remote monitoring system. Additional output connections can be provided for SUPPLIER monitoring.

(b) Tank shall be equipped with storage level indicators with a signal output for OWNER'S remote monitoring system. Additional output connections can be provided for SUPPLIER monitoring. Reporting shall be continuous at 5- minute intervals.

(2) Chemically compatible containment sized in accordance with the tank volumes as required by the site.

(3) Chemical Injection Metering Pumps (duty + standby) and Integral Control System

(a) System shall allow for manual adjustment of the chemical flow rate (as necessary to meet the target dissolved sulfide concentration) for each ofthe metering pump(s) in service with 25:1 turndown capability. Pump metering system shall have hourly flow programming to support diurnal feeding patterns.

(b) Automatic switchover to standby pump in the case of a malfunction of duty pump.

(c) Display chemical metering flow rate of each pump and total flowrate of each site locally and remotely for continuous monitoring.

(d) Signal output for OWNER'S remote monitoring system. Additional output connections can be provided for SUPPLIER monitoring. Reporting shall be continuous at 5-minute intervals.

(4) All necessary appurtenances for a complete and fully operational system such as valves, fittings, piping, etc. included, but not limited to:

(a) Chemical fill and injection piping as needed compatible with magnesium hydroxide and designed to minimize clogging due to slurry.

(b) Fill-station with camlock quick connect and ball valve assembly installed within the containment area. No part of the fill station shall be out of the containment area. Fill station assembly shall be supported from the containment wall or the ground.

(c) Chemical injection flow meter(s) (installed downstream of sample tap) with signal output for OWNER'S remote monitoring system. Additional output connections can be provided for SUPPLIER monitoring. Reporting shall be continuous at 5-minute intervals.

(d) Sample tap downstream of the chemical injection pump(s) and upstream of the flow meter(s) to be located inside the containment area.
(e) Fully functional and operational eyewash station meeting OWNER Health and Safety Standards (OSHA).
(i) Submit alternative cost for temporary tank eyewash system. This will only require use if the OWNER has not provided permanent water to the site.
(5) Temporary feed facilities capable of supplying magnesium hydroxide during replacement of existing facilities.
(6) All SUPPLIERS are required to provide new equipment and appurtenances at each site except for the concrete pad.

ii) SUPPLIER must itemize the system components to be furnished and installed at each dosing location as part of the bid documentation.

iii) All materials of construction for storage, pumping, dosing, metering, piping/tubing, and mixing systems that come in contact with magnesium hydroxide chemical solution shall meet industry standards for material compatibility and conform to engineering best practices and safety for the application.

**2.01 TURNKEY SERVICE REQUIREMENTS**

A. SUPPLIER equipment and appurtenances: The selected SUPPLIER shall furnish, deliver, install and place in satisfactory operation a complete turnkey chemical storage and feed system capable of feeding magnesium hydroxide chemical solution directly into the wastewater collection system at dosing rates established herein at the two (2) locations identified above in Section 2.02 A. Provisions shall be included to provide any dosing rate required to meet the target pH range between 8.0-8.5 at the target locations specified herein.
1. The primary physical components of this turnkey system are provided in Section 2.01 and 2.02 of this specification.
2. SUPPLIER shall provide a transition plan to provide treatment with magnesium hydroxide chemical during the period of transition between the existing supplier and the awarded SUPPLIER equipment replacement.

B. SUPPLIER Operation Requirements
1. The SUPPLIER shall provide as needed operational support to maintain continuous service of equipment 24 hours a day, 7 days a week, 365 days a year.
2. The SUPPLIER shall guarantee a minimum of 13 site visits per year per site and a maximum of 26 site visits per site for manual dose adjustments and operational requirements to maintain a fully operational system. This does not include SUPPLIER site visits related to regular maintenance of the system.

C. SUPPLIER Maintenance Requirements
1. The SUPPLIER shall provide as needed maintenance support to maintain continuous service of equipment 24 hours a day, 7 days a week, 365 days a year.
2. The SUPPLIER shall be responsible for removal of any spilled magnesium hydroxide chemical.
3. The SUPPLIER shall guarantee a minimum of:
    a. Quarterly calibrations for the chemical injection pumps
    b. Quarterly flow meter and storage tank level calibrations
    c. Quarterly inspections of the fill station, and chemical storage tank and injection piping
    d. Quarterly inspections of tank mixing system
4. All calibrations shall be communicated to the OWNER. If any changes are made that require scaling factor changes in the OWNER'S remote monitoring system, the SUPPLIER shall notify the OWNER immediately upon completion of the calibration.

D. OWNER Responsibilities

1. The OWNER will provide two (2) dosing locations as specified herein and equipment site space for the selected SUPPLIERs tanks, containment, chemical injection metering pumps,

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and any other necessary appurtenances for a fully operational system. This will include but is not limited to:

a. Site road access for delivery trucks
b. Concrete pad for containment

2. The OWNER will provide remote monitoring system units to connect output signals to.
3. The OWNER will provide power at all sites. If no power is provided, or there is not sufficient power, the OWNER shall install the necessary equipment to feed the necessary power requirement. This shall include, but not limited to, the instruments, the pumps, the mixing system, and the flow meter. Coordination with the OWNER by the SUPPLIER will be required to guarantee power is available to the required locations.
4. The OWNER will provide water at all sites where potable water is required. The potable water shall be provided up to the containment area where required. Coordination with the OWNER by the SUPPLIER will be required to guarantee potable water is supplied in the required locations.
5. The OWNER will sample wastewater at the following locations to monitor pH:
   a. Preston Road LS – ARV 8 2
   b. Wilson Creek LS – Wilson Creek FM Discharge
6. The OWNER shall coordinate the removal of the existing chemical feed systems with the existing supplier. The awarded SUPPLIER is expected to provide an estimated date to have equipment onsite to allow the OWNER to coordinate with the existing supplier.

**PART 3 – EXECUTION**

**3.01 MAGNESIUM HYDROXIDE PROCUREMENT AND DELIVERY**

1. Magnesium hydroxide chemical solution inventory shall be maintained by the selected SUPPLIER at all sites for the proposed duration of this Contract. Minimum chemical inventory at each site shall not fall below the volume equivalent to a one (1) day supply based on the flows specified herein.
2. The SUPPLIER shall supply all required piping, hoses, valves, and fittings for tank filling. The SUPPLIER shall notify the OWNER 24 hours before expected time of each chemical delivery with an anticipated time of delivery and a submittal of the product quality sheet for the chemical to be delivered.
3. Delivery containers and all piping, hoses, valves, and fittings shall be structurally sound and meet industry standards for material compatibility with liquid magnesium hydroxide.
4. The SUPPLIER must provide a certificate of analysis with each Bill of Lading with each load of magnesium hydroxide delivered. Certificate of analysis of each delivery may also be provided with the invoices.
5. All hatches and fill/drain connections shall be capped and in good condition to prevent contamination of product. Delivery vehicle hoses shall be clean, capped, and sealed while in transit to each location to prevent contamination of product during unloading.
6. Packaging and shipping of magnesium hydroxide chemical solution shall conform to all current Federal and State regulations. The OWNER requires weight certificates from a certified scale to accompany all shipments. Tanker trucks shall be in suitable condition for hauling magnesium hydroxide chemical solution and shall not contain any substances that might affect the use or usefulness of the magnesium hydroxide chemical solution in treating wastewater or hazardous to the public or the

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environment.

7. Any chemical spills at any of the two (2) sites caused by the selected SUPPLIER will be properly and promptly cleaned and disposed of and shall be reported immediately to OWNER personnel. Spill cleanups shall be performed in accordance with all applicable OWNER, State, and Federal regulations at the cost of the SUPPLIER.

b) The Contractor shall provide (x) number of feed pumps and (x) number and (x) size of HDPE feed tanks. XXXX AUTHORITY will provide concrete pads for the tanks and equipment including electrical connections and water. Each feed tank shall include:

(1) 1 Graco EP Series or Watson Marlow SPX Series peristaltic hose pump per injection point,
(2) 1 Basic Operation control panel per location
(3) 1 mechanical 2" stainless steel vertical shaft mixer/gearbox/gearbox motor with a minimum 30" diameter stainless steel mixing blades and mixing blades hub OR Authority Approved Equal.
(4) 1 spare pump as a back-up at each WWTP plant, at no additional cost to the AUTHORITY.
(5) The Contractor shall provide parts and repair service for the feed tanks:
  (a) Inspect pump and pump motor for proper working condition (2x/month)
  (b) Inspect pump hose for proper working condition (2x/month)
  (c) Inspect mixer shaft, hub, blades and gearbox motor for proper working condition that includes proper balance and alignment (2x/month)
  (d) Inspect gearbox oil levels for proper working condition (2x/month)
  (e) Change gearbox oil (every 6 months)
  (f) Inspect pump Hz and compare with scheduled pump Hz (2x/month)
  (g) Inspect power supply to feed unit (2x/month)
  (h) Inspect feed unit valves and electrical switches to ensure they are in proper position and record position of hand/auto switch prior to departure
  (i) Response time for repairs shall be within 4 hours of notification

(6) The Contractor shall have a Service Center within (x) miles of the XXXX AUTHORITY in order to respond to emergencies in less than 4 hours after notification by the Plant.

(7) The Contractor shall submit a written report with the bid submittal that details how the technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine provides non-carbonate alkalinity in a municipal wastewater treatment plant. This report shall document measurable results obtained through the use of technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine.

c) The Contractor shall contact the Contract Manager within 5 business days after award of contract to schedule a meeting. The purpose of this meeting will be to establish and mutually agree upon a schedule and coordination of the contract with plant operations.

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d) The Contractor shall not impede the operation of the plant. If the Contract Manager determines that the Contractor is interfering with the plant's operation, the Contract Manager reserves the right to stop work and reschedule. The Contractor shall complete the tank installation within 4 weeks after award of the contract.

e) The AUTHORITY Manager will be the sole judge of acceptability of the work.

7) DELIVERY REQUIRMENTS

a) The Plant Superintendent or his Designee will place orders by phone/fax/email, on an "as needed" basis.
b) All shipments shall be accompanied by a certified weight certificate, Certificate of Analysis and MSDS.
c) Delivery hours shall be specified by the Authority
d) The Contractor shall be responsible for cleanup of any spillage or leakage during transportation or on the plant site due to defective pumping/unloading or negligence of the driver.
e) Delivery Locations:

1. XXXX Wastewater Treatment Plant
2. Contact Person:
3. Office: XXXX Fax: XXXX
4. Email:

f) The AUTHORITY reserves the right to request additional technical grade magnesium hydroxide slurry produced and derived from highly reactive magnesium chloride brine feed locations as necessary.

8) INVOICING REQUIREMENTS

a) Invoices shall be submitted to the delivery location within 5 business days after delivery of product and shall include, but is not limited to, the following:

(a) Contractor's name, on a professionally pre-printed numbered invoice
(b) Contractor's address and phone number
(c) AUTHORITIES contract number/purchase order number
(d) Date of delivery
(e) Location of delivery
(f) Itemized description and pricing
(g) Signed Chemical Delivery form for each delivery