GHOSH ENGINEERS

PROFESSIONAL CONSULTING ENGINEERS

presents to the

WV DIVISION OF NATURAL RESOURCES
PALESTINE STATE HATCHERY BUILDING & MUSSEL REARING FACILITY

EXPRESSION OF INTEREST FOR ENGINEERING SERVICES

April 14, 2020

4710 Chimney Drive Suite A
Charleston, WV 25302
304-343-5300
www.ghosheng.com

GHOSH ENGINEERS

April 14, 2020

Department of Administration
Purchasing Division
Attn: Guy Nisbet
2019 Washington St E
Charleston, WV 25302

RE: Expression of Interest for Engineering Services
WVDNR Palestine State Hatchery Building & Mussel Rearing Facility
CEOI 0310 DNR2000000006

Dear Mr. Nisbet:

Ghosh Engineers is pleased to submit our statement of qualifications for the WVDNR Palestine State Hatchery Building & Mussel Rearing Facility project. We have been dedicated to providing engineering services in West Virginia for 38 years.

As a small company, we take great pride in our ability to give our clients the focused attention they deserve while keeping our overhead costs low. We are a Charleston, WV based corporation that has vast experience in regulations controlling West Virginia projects and maintain an excellent working relationship with governmental agencies.

We have previous experience in fish hatchery facility projects, specifically the Spring Run Facility located in Dorcas, West Virginia. The philosophy at Ghosh Engineers is to be an extension of the DNR's staff and develop the project to tailor the needs of the facility and operating personnel.

Thank you for the opportunity to submit this statement of qualifications. We welcome the opportunity to discuss this project further and answer any questions you may have.

Sincerely,

GHOSH ENGINEERS, INC.

Jeffery D. Ekstrom, PE

INTRODUCTION

GHOSH ENGINEERS

We're a small, highly-experienced team of professionals working hard to improve the infrastructure in our communities. We understand that the decisions we make today have an impact on both the environment and our clients' economic well being. We strive to provide small-firm responsiveness and agility while delivering solutions that help our clients succeed in their missions.

At Ghosh Engineers, we have the ability to accomplish both simple and inexpensive infrastructure needs as well as the most complex projects that require innovative solutions.

The Ghosh Advantage

Small Firm

Low Overhead

Personalized Service

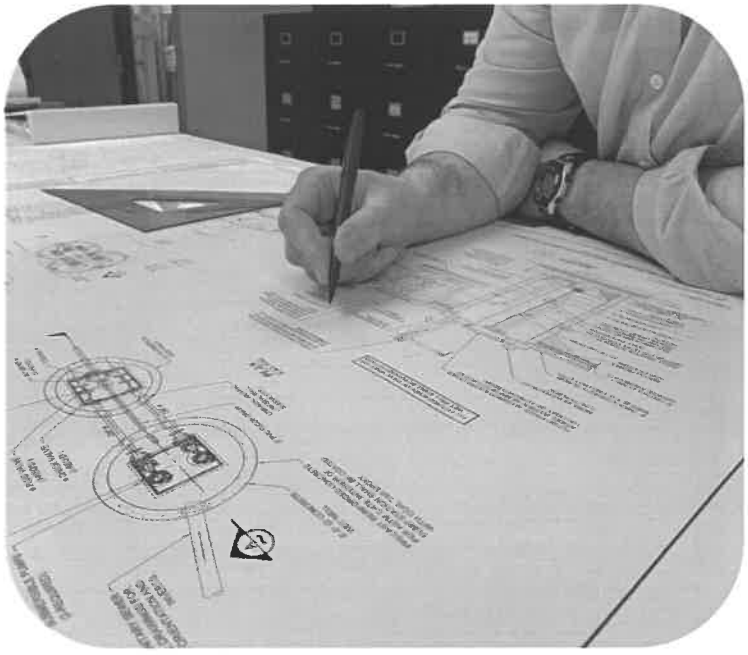
Easily Accessible

Quality Deliverables

Attentive

Responsive

Innovative Funding Scenarios



Founded in 1982 by Mr. Paul Ghosh, our current team of engineers have collectively worked in the water and wastewater industry for over 90 years.

Client Satisfaction

Our highly satisfied client list includes the following, some of which have been clients for over 20 years:

- West Virginia Division of Natural Resources
- City of Follansbee
- Corporation of Shepherdstown
- City of Dunbar
- Beckley Water
- West Virginia American Water
- Tomlinson PSD
- Huttonsville PSD
- Town of Buffalo
- Hancock County PSD
- West Fork Onsite Community Coop

PROFILE OF PROFESSIONAL SERVICES

Clean water, along with correct treatment and management of wastewater, is essential to any community. Our engineers have a history of utilizing innovative treatment technologies including onsite decentralized treatment, vertical loop reactors (VLR), membrane bioreactors (MBR) and sequencing batch reactors (SBR) with tertiary filtration. The Ghosh team is highly skilled and passionate to help your community resolve its wastewater needs and comply with effluent quality standards.

GHOSH ENGINEERS

WASTEWATER SYSTEM IMPROVEMENTS

WASTEWATER SYSTEM DESIGN

- Treatment Plant Design
- Collection Systems and Extensions
- Pump Stations
- Force Mains
- Telemetry and SCADA Systems
- Start-up and Operation Assistance

WASTEWATER ENGINEERING SERVICES

- Planning and Feasibility Studies
- Infiltration and Inflow Evaluations
- Smoke Testing/Flow Monitoring
- Collection and Treatment Design
- Funding Application Assistance
- Permitting
- Construction Administration
- Project Closeout Documents

Vertical Loop Reactor System - White Sulphur Springs

Drinking water is one of the most valuable resources and is vital to commerce and industry as well as the health and welfare of the community and its success. Today, communities are facing difficulties in securing, transporting, treating, distributing, storing and providing sufficient amounts of safe, quality drinking water for their customers. The Ghosh team has experienced professionals with extensive backgrounds in water resources to ensure regulations are followed, results are maximized, and your specific water project is successful.

GHOSH ENGINEERS

WATER TREATMENT AND DISTRIBUTION

WATER SYSTEM DESIGN

- Treatment Plants
- Wells, Intakes, Booster Stations
- Storage Tanks
- Capital Improvements
- Transmission/Distribution Mains
- Telemetry and SCADA Systems
- Automatic Meter Reading System (AMR)

WATER ENGINEERING SERVICES

- Planning and Feasibility Studies
- Hydraulic Analysis
- Distribution and Treatment Design
- Funding Application/Administration
- Permitting
- Construction Administration
- Project Closeout Documents

West Virginia American Water Project - Lewis County

PROJECT EXPERIENCE

GHOSH ENGINEERS

WV DIVISION OF NATURAL RESOURCES

GHOSH ENGINEERS

Tomlinson Run State Park

Wastewater System Improvements: Project consisted of 1) decommissioning the existing wastewater treatment plant; 2) reversing the flow of the two (2) existing pump stations; and 3) transporting the Park's wastewater to Hancock County PSD's existing collection system for ultimate treatment at the PSD's wastewater treatment plant. Ghosh Engineers provided design and construction assistance services for this project.

Cass Scenic Railroad State Park

Water and Wastewater System Improvements: Project consists of 1) new water storage tank; 2) replacement of the existing wastewater treatment plant pump station; 3) replacement of sanitary sewer pipe and manholes; and 4) wastewater treatment plant improvements. Ghosh Engineers recently completed the design for this project and will provide construction assistance services.

Spring Run Fish Hatchery

Jeff Ekstrom was the project manager and designer for the improvements to this facility located in Dorcas, West Virginia. The project consisted of 1) construction of new raceways; 2) modifications of the site hydraulics in order to provide spring-fed water to the existing and new raceways without the need for a pump station; 4) construction of new secondary clarifier to provide settling of waste from raceways; 5) sludge holding tank to provide storage of solids from the clarifier; and 6) sludge pump station building to allow sludge to be transported from the clarifier to the sludge holding tank. Mr. Ekstrom provided both design and construction assistance for this project.

PROJECT APPROACH

GHOSH ENGINEERS

Ghosh Engineers proposes the following approach for the project as outlined by the Division in the AEOI. It should be noted that this is a general approach that is taken with most projects; however, all projects are unique in certain aspects and our approach will be modified as necessary in order to meet the goals set forth by the Division and from the results of our investigation.

Preliminary Site Evaluation – Ghosh will travel to the project site to ascertain all pertinent information available by field investigation, interviews with Park personnel familiar with the collection and treatment system, and existing drawings, O&M manuals, etc. At this point, Ghosh will meet with the Division to establish a Scope of Work to be performed.

Field Surveying – Ghosh will utilize a sub-consultant to field locate all existing visible features of the wastewater system including manholes, lift stations, treatment plant, etc. both horizontally and vertically. Dependent on if any existing mapping is available to be utilized for Construction Drawings, the extent of the surveying could be minor or somewhat more involved.

Site Investigation/Preliminary Design– Ghosh will perform all necessary site investigation and establish a preliminary design from that information. At this point, Ghosh will meet with the Division to provide at least two different options and opinion of probable construction cost for each, for review and approval. The pros and cons of all alternatives will be discussed, and Ghosh will help the Division make choices along the way. Environmental clearances, permits, and existing utility information for construction drawings will all be acquired before the start of the Preliminary Design.

Final Design – Once the Preliminary Design has been selected and approved by the Division, and all comments and/or concerns are addressed, Ghosh will move forward with finalizing design and the preparation of Construction Documents. Construction Documents shall consist of Construction Drawings and Technical Specifications, including all Bid Documents as required. Once final approval is given by the Division, Ghosh will prepare and submit the final Bid Set of Construction Documents. During the Final Design stage of the project, sub-consultants may be utilized to perform any geotechnical investigations, and electrical/mechanical design assistance as necessary.

Bidding and Contracting – Ghosh will prepare and distribute Construction Documents, as necessary. These documents will be in electronic (PDF) format. Ghosh will attend any and all meetings as requested by the Division during the bidding process and prepare any Addenda to the Documents as deemed necessary.

Construction Administration – Ghosh will provide any and all construction related services for this project, as requested by the Division. Scheduled monthly progress meetings are also part of the Construction Administration. Resident Inspection as performed by Ghosh is available if the Division would require that service.

Project Close Out – Ghosh will provide final as-built drawings to the Division, as well as any additional information that may be available such as O&M manuals for equipment.

SCHEDULING/BUDGET CAPABILITIES

GHOSH ENGINEERS

Ghosh Engineers is a small water and wastewater consulting firm who specializes in providing the personalized service that larger companies cannot and that our clients appreciate. By being small, our engineers are also our project mangers who are responsible for keeping the project on budget and on schedule.

Before bidding the project and after the final design has been approved by the Division, Ghosh Engineers will re-examine the construction estimates to ensure that all costs are up to date and the estimate is as accurate as possible. It is also a standard practice to bid using either "Additive Alternates" or "Deductive Alternates" which enables the client to selectively add or deduct portions of the project as necessary to meet the budget.

After the Bid is submitted, and if the Bid is over budget without being able to utilize any Deductive Alternates, Ghosh Engineers can work with the apparent low bidder to perform "Value Engineering" of the project. Value Engineering is negotiating with the Contractor and investigating possible options for cost reductions that they may point out while still maintaining the integrity of the design.

Once construction begins, Ghosh will require the Contractor to submit a monthly progress schedule at each progress meeting. This schedule will be revised and updated by the Contractor each month, and if there is more than a 10% deviation in the scheduled progress, the Contractor will be required to submit a corrected plan of action to ensure the project is completed on time.

CITY OF DUNBAR, WV

WASTEWATER SYSTEM IMPROVEMENTS

GHOSH ENGINEERS

THE CHALLENGE

The existing trickling filter treatment plant was at the end of its useful life and was unable to meet more stringent permit requirements.

GHOSH TEAM SOLUTION

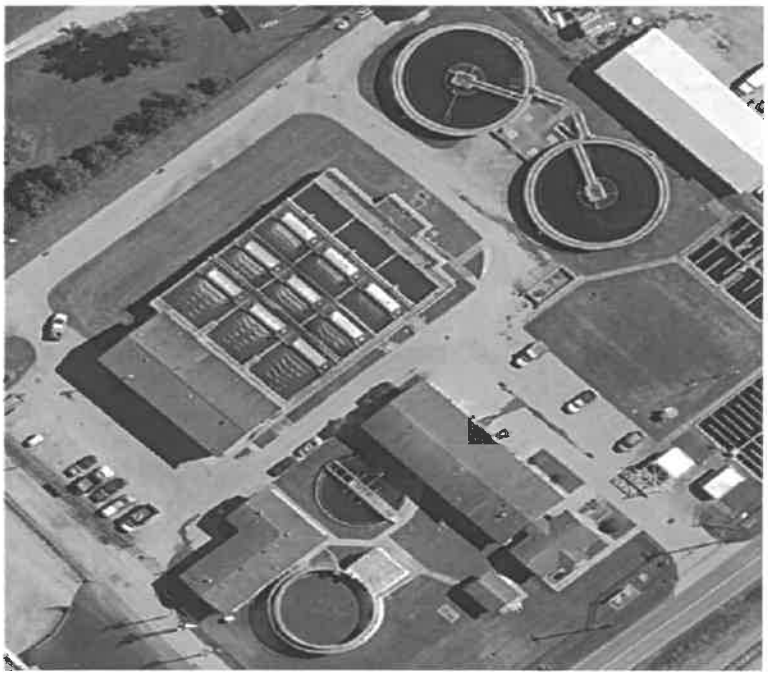
The solution was to construct a 2.25 MGD Vertical Loop Reactor (VLR) that can handle wet weather flows up to 4.5 MGD.

THE RESULTS

This was the first plant in the state of West Virginia to use the VLR process and enabled the city to better adapt to high fluctuation of wet weather flow. This treatment process better equipped the plant for nitrogen removal and energy efficiency.

PROJECT HIGHLIGHTS

- 2.25 MGD Vertical Loop Reactor (VLR) Plant
- 45,600 ft. of storm and sanitary sewers
- Rehabilitation of nine (9) sewage-pumping stations
- Funded through Clean Water State Revolving Fund (SRF)
- $17 Million project
- This VLR plant was the prototype for both Elk Valley PSD and White Sulphur Springs



The Dunbar facility won the EPA Region III O & M Excellence Award in 2002, WV DEP Outstanding Plant Award in 2004 and US EPA Nation Award 1st place for 1 MGD to 10 MGD Facilities.

CITY OF FOLLANSBEE, WV

WASTEWATER SYSTEM IMPROVEMENTS

GHOSH ENGINEERS

THE CHALLENGE

The City suffered from high fluctuation of wet weather flows due to their combined sewer system, which impacted their existing 500,000 GPD treatment plant.

GHOSH TEAM SOLUTION

Ghosh Engineers designed a twin oxidation ditch treatment process utilizing inter-channel clarifiers.

THE RESULTS

In the 20 years that this plant has been operating, it has consistently provided the City with a high-quality treatment process. In 2019, Ghosh Engineers was again hired by the City to perform an energy efficiency improvement project.

PROJECT HIGHLIGHTS

- 1.6 MGD treatment plant capable of peak flows of 3.5 MGD
- Twin Oxidation Ditch Treatment Process utilizing inter-channel BOAT clarifiers. This was the first plant of this type in the state.
- Plant was constructed on 300 concrete piles due to soil contamination.
- $8 Million Project

WHITE SULPHUR SPRINGS, WV

PHOSPHOROUS REMOVAL

GHOSH ENGINEERS

THE CHALLENGE

The City of White Sulphur Springs was required to meet lower limits on phosphorous in order to meet the designated use requirement of the Greenbrier River, to which the treatment plan discharges.

GHOSH TEAM SOLUTION

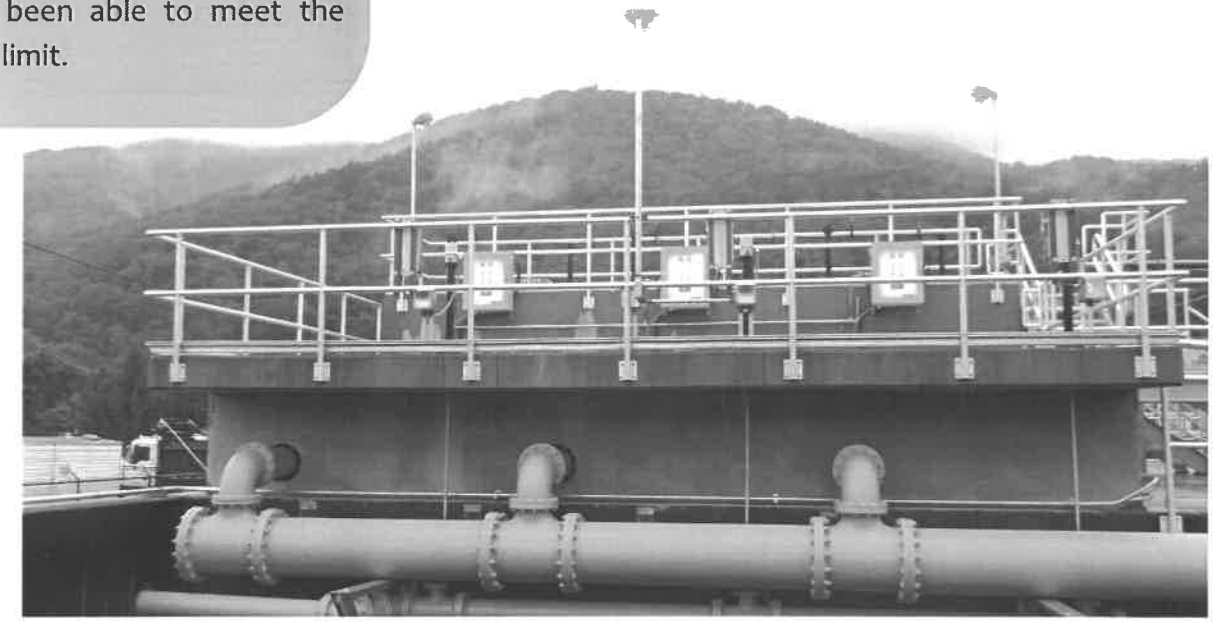
We proposed the addition of tertiary filters along with chemical addition in order to precipitate the phosphorous out of the effluent.

THE RESULTS

Continuous backwash sand filters were installed in existing tankage prior to the chlorine contact tank since the filters were placed on-line, the city has continuously been able to meet the phosphorous limit.

PROJECT HIGHLIGHTS

- Phosphorous limits - April through October 0.5 mg/L average monthly; 1.0 mg/L maximum daily.
- Continuous backwash sand filters.
- Coagulant addition.
- Project was partially funded through the Chesapeake Bay Grant.
- Filters are capable of treating 4.0 MGD over 4.0 MGD, the flows would be blended.



BRADLEY PSD, WV

WASTEWATER SYSTEM IMPROVEMENTS

GHOSH ENGINEERS

THE CHALLENGE

The PSD had high fluctuations of wet weather flows which their existing oxidation ditch was not able to treat efficiently.

GHOSH TEAM SOLUTION

Ghosh proposed constructing a new Sequencing Batch Reactor (SBR) treatment plant, including new grit removal and bar screen, new aerobic digesters, and a new belt filter press.

THE RESULTS

According to the PSD, the plant has seen at least twice the average daily flow many times and has always maintained the necessary treatment capacity.

PROJECT HIGHLIGHTS

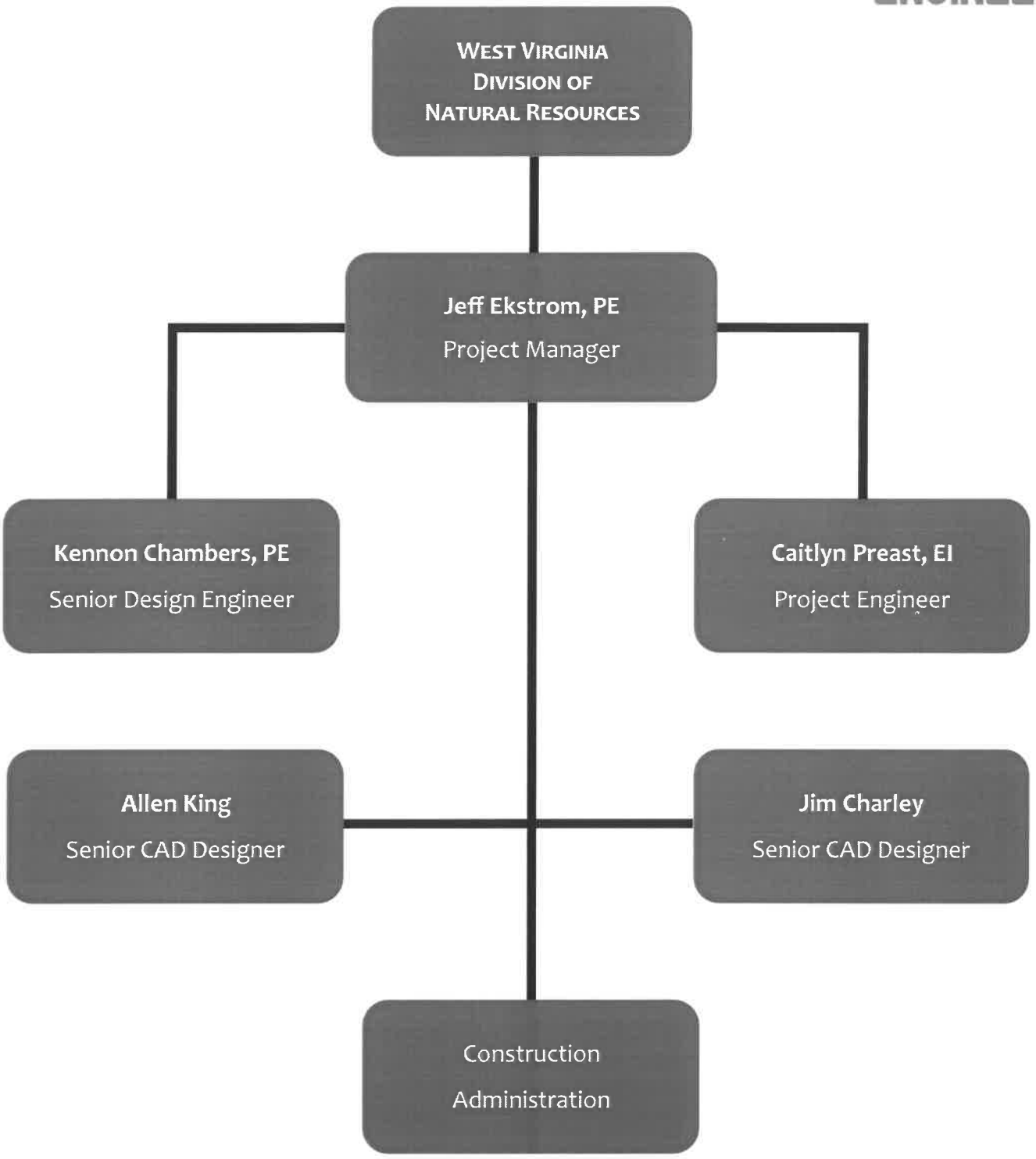
- New Sequencing Batch Reactor (SBR) with Average Daily Flow 1.0 MGD and Peak Daily Flow 3.0 MGD.
- New bar screen and grit removal.
- New aerobic digesters.
- New belt filter press.
- New SCADA System including the plant and lift station.
- Project cost of $5M.

PROFESSIONAL & TECHNICAL STAFF

GHOSH ENGINEERS

PROJECT TEAM

GHOSH ENGINEERS



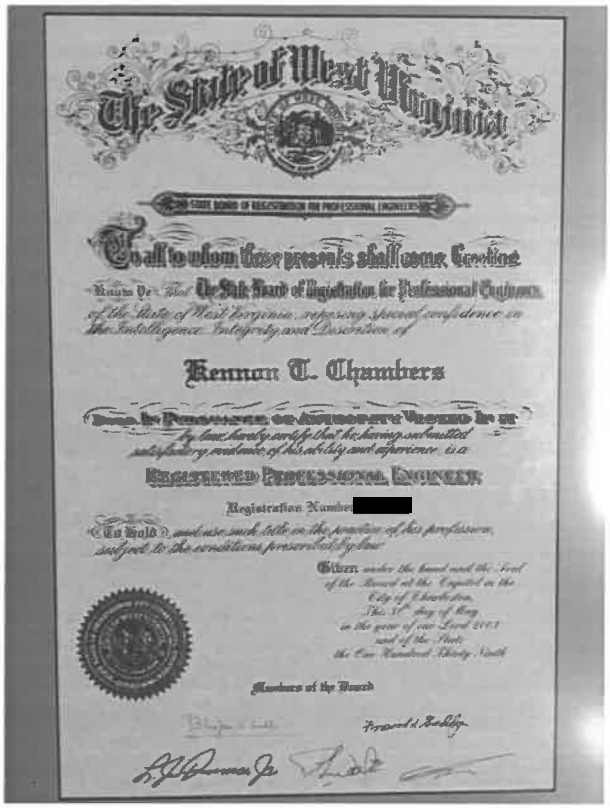
COMMUNICATION DURING PROJECT

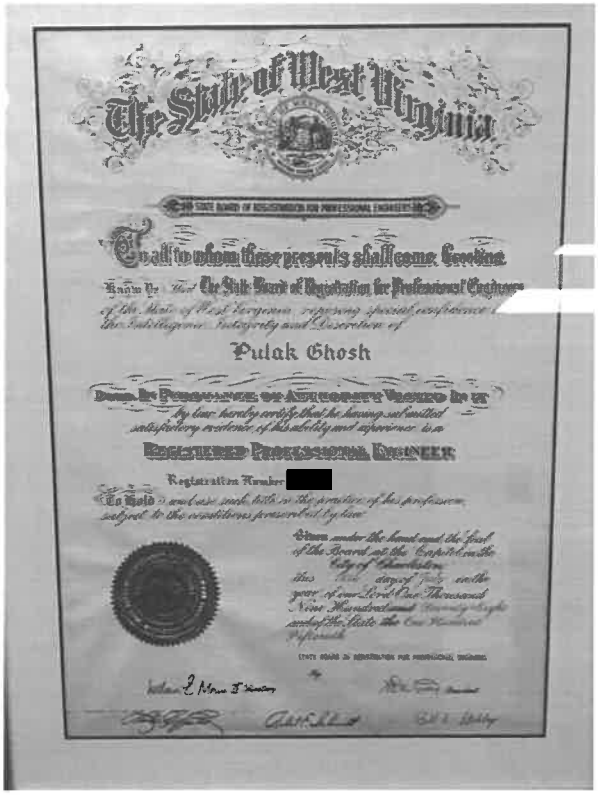
Throughout all stages of the project, the Division will have one point of contact with Ghosh Engineers, Mr. Jeff Ekstrom, P.E., who may be reached by email or mobile phone at any time. Mr. Ekstrom will administer all aspects of the design of the project, and regularly communicate back to the Division's appointed contact on a regular schedule, on a minimum of a monthly basis. Monthly progress meetings will also be held with the Division and Contractor once the project goes to construction, with an agenda and minutes prepared for each and distributed to all parties.

The benefit of hiring Ghosh is that we are available for our client via email or phone any time when questions/concerns arise. Due to the size of the staff, you will be involved with the same individuals from project start to finish. With a close working relationship as we are able to provide, projects can be completed on-time and on-budget while maintaining a constant and consistent form of contact with the client keeping them informed.

STAFF CERTIFICATIONS

GHOSH ENGINEERS





PAUL GHOSH, PE

PRESIDENT

GHOSH ENGINEERS

Paul Ghosh, PE is the founder and one of the principals at Ghosh Engineers, Inc. With a 38 year history, he has lead and been instrumental in the design, funding, and construction of numerous water and wastewater projects throughout the state of West Virginia. His first client, the City of Follansbee, remains a client to this day.

Mr. Ghosh has also been involved in establishing several Public Service Districts, and the merger of more than one PSD. During his 48 year career, he has developed an exceptional depth and breadth of municipal infrastructure planning and design. With his thorough explanations throughout all project stages, it's not surprising to learn he was also an associate professor of Civil Engineering at West Virginia Institute of Technology in Montgomery, WV in the company's early years.

Mr. Ghosh brings an understanding of the engineering business and a working knowledge of all the services the company delivers to its clients. His command of engineering principles, innovative technical applications, and business operations is well known in engineering circles, and he has provided his expertise in design, project management, and technical guidance for a variety of water and wastewater projects.

He has successfully integrated innovative technologies, making Ghosh Engineers one of the first in the state of West Virginia to implement Sequencing Batch Reactors, Vertical Loop Reactors, Oxidation Ditch with Inter-Channel Clarifiers, and Retrofit Existing Treatment Technologies.

EDUCATION

Bachelor of Science,
Civil Engineering
Calcutta University

REGISTRATION

Professional Engineer
- West Virginia

NCEES Record Established

AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Water Pollution Control Federation (WPCF)

PROJECT EXPERIENCE

INNOVATIVE OXIDATION DITCH – Town of Marmet and City of Follansbee wastewater treatment facilities.

SEQUENCING BATCH REACTORS (SBR) – Bradley Public Service District, Boone Raleigh Public Service District, and Upper Kanawha Valley Public Service District wastewater treatment facilities.

VERTICAL LOOP REACTORS (VLR) – City of Dunbar, Elk Valley Public Service District, and City of White Sulphur Springs wastewater treatment facilities.

CONVENTIONAL CONTACT STABILIZATION – Kanawha Falls Public Service District wastewater treatment facility.

FACULTATIVE LAGOON WITH SMALL DIAMETER GRAVITY SEWER – Southern Jackson County Public Service District wastewater treatment facility.

KENNON CHAMBERS, PE

VICE PRESIDENT

GHOSH ENGINEERS

Kennon Chambers, PE, is Vice President of Ghosh Engineers, Inc. and has 22 years of experience in design, construction, and construction administration of water and wastewater systems.

Responsible for the overall management of company operations, his years of engineering design and management experience include engineering studies, preliminary engineering reports, construction drawings, contracts, specifications, permitting, cost estimating, and contract administration. He is equally proficient in the design of wastewater treatment plants and collection systems, including lift stations, as well as water treatment and distribution systems including booster stations and storage tanks.

Mr. Chambers began his career at a utility construction company where he gained unique experience that would become invaluable to him in the future as a design engineer. He has since managed the design and construction of projects ranging in size from $50,000 up to $30 million, with numerous projects running concurrently.

EDUCATION

Bachelor of Science,
Civil Engineering
West Virginia Institute of Technology

REGISTRATION

Professional Engineer
- West Virginia
- Kentucky
- Virginia

NCEES Record Established

Model Law Engineer as determined by NCEES

AFFILIATIONS

- American Water Works Association (AWWA)
- Water Environment Association (WEA)
- Water Environment Federation (WEF)

PROJECT EXPERIENCE

CITY OF WHITE SULPHUR SPRINGS – The addition of tertiary treatment for phosphorous reduction at the existing wastewater treatment plant.

NATIONAL RADIO ASTRONOMY OBSERVATORY – Facility Engineer for the site which included management of the facility's lagoon wastewater treatment plant and groundwater treatment plant for drinking water.

WEST DUNBAR PUBLIC SERVICE DISTRICT – Collection and pumping system rehabilitation project.

HUTTONSVILLE PUBLIC SERVICE DISTRICT – CSO compliance project, I/I monitoring of the collection system, and ammonia reduction project of the PSD's lagoon treatment system.

CULLODEN PUBLIC SERVICE DISTRICT – Interceptor replacement project in conjunction with City of Milton and Salt Rock PSD regional projects.

BECKLEY SANITARY BOARD – The replacement of 6.5 miles of the City's main interceptor.

BOONE COUNTY PUBLIC SERVICE DISTRICT – Design and construction administration of a new collection and pumping system.

CITY OF LEWISBURG – Implementation of an automatic meter reading (AMR) system for the water distribution system.

JEFF EKSTROM, PE

PROJECT MANAGER

GHOSH ENGINEERS

Jeff Ekstrom, PE joined Ghosh Engineers, Inc. in August 2019 as a Project Manager. In his 29 years of experience, he brought to the company his organizational, problem solving and leadership skills in the design and management of infrastructure projects ranging from $100,000 to $68 million in construction costs.

Jeff's area of specialty is environmental engineering with a focus on the design of water and wastewater treatment plants. He has introduced and implemented new technologies into treatment plants throughout West Virginia that were instrumental in achieving ever changing water quality standards. These accomplishments have made him a sought-after water and utility engineer. Jeff is accessible and puts clients first, providing them with options that are the most practical and economical ways to approach a challenge.

Jeff currently serves as the WV Section Representative on the American Water Works Association's (AWWA) Board of Directors helping to establish policies for the overall management and direction of AWWA affairs.

EDUCATION

Bachelor of Science,
Civil Engineering
West Virginia Institute of Technology

REGISTRATION

Professional Engineer
- West Virginia
- Kentucky
- Virginia
- Ohio

NCEES Record Established

AFFILIATIONS

- American Water Works Association (AWWA) WV, OH, KY/TN Sections
- Water Environment Association (WEA)
- Water Environment Federation (WEF)

PROJECT EXPERIENCE

PEA RIDGE PUBLIC SERVICE DISTRICT – Wastewater Treatment Plant upgrades; Plant A - 3.0 MGD SBR Treatment Process and Plant C - 0.250 MGD Oxidation Ditch Process.

BERKLEY COUNTY PUBLIC SERVICE SEWER DISTRICT – (1.25 MGD) North Ave (2.0 MGD) Wastewater Treatment Plant bay upgrade SBR Treatment Process with Bio Mag System.

CITY OF ROMNEY – Wastewater Treatment Plant; SBR Treatment Process with Cloth Media Filtration 0.750 MGD.

CORPORATION OF SHEPHERDSTOWN – Wastewater Treatment Plant bay upgrades; 2.5 MGD Membrane Bio Reactor Treatment Process.

CORPORATION OF SHEPHERDSTOWN – Water Treatment Plant upgrade; elevated water storage tanks; AMR water meter system; distribution system improvements.

CITY OF BELINGTON – Wastewater Treatment Plant – 0.725 MGD Orbal Treatment Process and wastewater collection system improvements.

HARMAN WASTEWATER TREATMENT PLANT – Randolph City, WV 0.10 MGD SBR Treatment Process and wastewater collection system.

CITY OF RIPLEY – Wastewater Treatment Plant; 1.2 MGD SBR Treatment Process.

CITY OF BELINGTON WATER TREATMENT PLANT – 1.0 MGD Conventional Settling and Filtration.

WEST VIRGINIA AMERICAN WATER – Weston Water Treatment Plant expansion from 2.0 MGD to 4.0MGD.

CAITLYN PREAST, EI

PROJECT ENGINEER

GHOSH ENGINEERS

Caitlyn Preast, EI is a Project Engineer for Ghosh Engineers, Inc. She began her career as a Professional Engineering Intern for The Walt Disney Company and gained valuable knowledge and real-world experience. Her career has included a unique blend of projects including stormwater design, site development, and water and wastewater design.

As a result of Senate Bill 373, she led a team of engineers to develop more than forty Source Water Protection Contingency Plans across West Virginia. She has also developed specific expertise supporting the development and implementation of capital improvement plans and utility project funding applications.

In her role as a Project Engineer, Caitlyn's attention to detail makes her a key member of any team. Her skills with AutoCAD Civil 3D allow her to assist with site development including erosion and sediment control measures, earthwork and grading, and utility layout and design to produce high-quality deliverables. With knowledge of construction administration and project scheduling, she is an important asset to the team.

Caitlyn has a natural ability to communicate effectively with clients. Her enthusiasm for positively affecting communities has helped advance her clients' projects and gain support amongst key stakeholders.

EDUCATION

Bachelor of Science,
Civil Engineering
West Virginia Institute of Technology

REGISTRATION

Engineering Intern
- West Virginia

AFFILIATIONS

- Leadership Logan
  Logan, WV
- American Water Works Association (AWWA)
- Water Environment Federation (WEF)

PROJECT EXPERIENCE

REGION II PLANNING & DEVELOPMENT COUNCIL – Preparation of more than 40 Source Water Protection Contingency Plans in response to West Virginia SB 373.

CRAIGSVILLE PUBLIC SERVICE DISTRICT – Water line extension for the Craigsville/ Tioga area.

BERKELEY COUNTY PUBLIC SERVICE SEWER DISTRICT – Wastewater treatment facility upgrades and Capital Improvement Plan.

CHARLESTON SANITARY BOARD – Capital Improvement Plan.

MILTON PUBLIC SERVICE DISTRICT – Site grading and stormwater design for wastewater treatment facility upgrade.

WEST VIRGINIA DIVISION OF NATURAL RESOURCES – Site design for five (5) proposed access locations along the Elk River.

AB CONTRACTING – Site, utility, and stormwater design for new Hurricane, WV location of a Wingate by Wyndham hotel.

CITY OF BECKLEY – Site, utility, and stormwater design for new downtown Police Station.

JIM CHARLEY

SENIOR CAD DESIGNER

GHOSH ENGINEERS

Jim Charley has worked on countless projects in his 28 year career with Ghosh Engineers and is highly skilled in the production of Civil and Architectural drawings for the construction of water and wastewater treatment systems.

EDUCATION

Bachelor of Science,
Industrial Technology
West Virginia State University
Institute, WV

PROJECT EXPERIENCE

WEST VIRGINIA AMERICAN WATER – Weston Water Treatment Plant.

CITY OF WHITE SULPHUR SPRINGS – Water Treatment Plant.

DUNBAR SANITARY BOARD – Wastewater Treatment Plant.

ELK VALLEY PUBLIC SERVICE DISTRICT – Wastewater Treatment Plant.

TOWN OF BEVERLY – Water Treatment Plant.

BRADLEY PUBLIC SERVICE DISTRICT – Wastewater Treatment Plant.

ALLEN KING

SENIOR CAD DESIGNER

Allen King has 18 years of CAD design experience and joined Ghosh Engineers in September 2019 after working several years for a large national firms in WV and VA. He serves as primary CAD Technician on water, wastewater and stormwater system improvements.

EDUCATION

Associate of Science,
Architectural Computer Aided Drafting and Design Technology
Triangle Tech
Pittsburgh, PA

PROJECT EXPERIENCE

TOMLINSON PUBLIC SERVICE DISTRICT – Water distribution system improvements.

CITY OF FOLLANSBEE – Wastewater collection system improvements and water distribution system improvements.

WEST VIRGINIA AMERICAN WATER – Various water distribution system improvements.

WEST VIRGINIA DIVISION OF NATURAL RESOURCES – Cass Scenic Railroad wastewater collection system improvements.

RED HOUSE, WV – Stormwater system improvements.

CLIENT REFERENCES

GHOSH ENGINEERS

1.	City of Dunbar Sanitary Board Ronald Byrnside, General Manager	(304) 766-0209
2.	City of Dunbar William Cunningham, Mayor	(304) 766-0222
3.	West Fork Onsite Community Cooperative Paul Hamrick, President	(304) 622-5664
4.	City of Follansbee John DeStefano, City Manager	(304) 527-1330
5.	City of Follansbee Jack McIntosh, Chief Water Operator	(304)491-0028
6.	Hancock County Commission Jeff Davis, Commissioner	(304) 564-3311
7.	West Dunbar Public Service District Dennis Davis, Chairman of the Board	(304) 546-5449
8.	Culloden Public Service District Bonnie Osburn, Office Manager	(304) 743-6349
9.	West Virginia American Water Thomas Boggs, Construction Manager	(304)340-2975
10.	Town of Buffalo Jim Kapp, Chief Operator	(304)857-1606
11.	Corporation of Shepherdstown Frank Welch, Public Works Director	(304)876-3322
12.	Beckley Water Company Louis Wooten, Superintendent	(304)255-5121, Ext. 113

Purchasing Divison
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
02 — Architect/Engr

Proc Folder: 697854

Doc Description: Addendum No.01 - A/E Services- Palestine Hatchery Facility

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2020-03-26	2020-04-14 13:30:00	CEOI 0310 DNR2000000006	2

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Name, Address and Telephone Number:

Ghosh Engineers, Inc.
4710 Chimney Drive, Suite A
Charleston, WV 25302
(304) 343-5300

FOR INFORMATION CONTACT THE BUYER

Guy Nisbet
(304) 558-2596
guy.l.nisbet@wv.gov

Signature X **FEIN #** 55-0624397 **DATE** 4/9/2020

All offers subject to all terms and conditions contained in this solicitation

FORM ID : WV-PRC-CEOI-001

ADDITIONAL INFORMATION:

Addendum

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

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Expression of Interest (A&E SVC's)

In accordance with West Virginia Code: 5G-1-3, The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The Division of Natural Resources (WVDNR) from qualified firms to provide architectural/engineering services and any other related professional services to design and specify for construction of hatchery facilities including mussel rearing capabilities for the Palestine State Fish Hatchery located near Elizabeth in Wirt County, WV.

The project will include all necessary permitting including WV DEP, WV Culture and History, and any other required permits. per the bid requirements, specifications and terms and conditions as attached hereto.

* Online submissions of Expressions of Interest are Prohibited*

INVOICE TO	SHIP TO
DIVISION OF NATURAL RESOURCES PARKS & RECREATION-PEM SECTION 324 4TH AVE SOUTH CHARLESTON WV25305 US	DIVISION OF NATURAL RESOURCES PALESTINE HATCHERY ELIZABETH WV 26143 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Civil engineering		

Comm Code	Manufacturer	Specification	Model #
81101500			

Extended Description :

Architectural/engineering services and contract administration for new fish/mussel facility at Palestine State Fish Hatchery, located in Wirt County, WV.

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Ghosh Engineers, Inc.

Authorized Signature: _____ Date: 4/9/20

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 9 day of April, 2020.

My Commission expires April 23, 2024.

AFFIX SEAL HERE

NOTARY PUBLIC Karen L Ekstrom

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Karen L. Ekstrom
Ghosh Engineers, Inc.
4710 Chimney Drive, Suite A
Charleston, WV 25302
My Commission Expires April 23, 2024

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Jeff Ekstrom, Project Manager

(Name, Title)
Jeff Ekstrom, Project Manager

(Printed Name and Title)
4710 Chimney Drive, Suite A, Charleston, WV 25302

(Address)
(304) 343-5300/(304) 343-5912

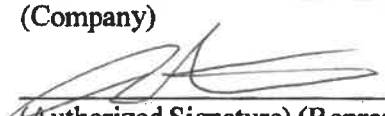
(Phone Number) / (Fax Number)
jeffe@ghosheng.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Ghosh Engineers, Inc.

(Company)



(Authorized Signature) (Representative Name, Title)

Jeffery D. Ekstrom, Proejct Manager

(Printed Name and Title of Authorized Representative)

4/9/2020

(Date)

(304) 343-5300/(304) 343-5912

(Phone Number) (Fax Number)

Purchasing Divison
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
02 — Architect/Engr

Proc Folder: 697854

Doc Description: Addendum No.01 - A/E Services- Palestine Hatchery Facility

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2020-03-26	2020-04-14 13:30:00	CEOI 0310 DNR2000000006	2

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Name, Address and Telephone Number:

Ghosh Engineers, Inc.
4710 Chimney Drive, Suite A
Charleston, WV 25302
(304) 343-5300

FOR INFORMATION CONTACT THE BUYER

Guy Nisbet
(304) 558-2596
guy.l.nisbet@wv.gov

Signature X **FEIN #** 55-0624397 **DATE** 4/9/2020

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

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Expression of Interest (A&E SVC's)

In accordance with West Virginia Code: 5G-1-3, The West Virginia Purchasing Division is soliciting Expression(s) of Interest for the Agency, The Division of Natural Resources (WVDNR) from qualified firms to provide architectural/engineering services and any other related professional services to design and specify for construction of hatchery facilities including mussel rearing capabilities for the Palestine State Fish Hatchery located near Elizabeth in Wirt County, WV.

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Extended Description :

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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0310 DNR2000000006

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

☑ Addendum No. 1	☐ Addendum No. 6
☐ Addendum No. 2	☐ Addendum No. 7
☐ Addendum No. 3	☐ Addendum No. 8
☐ Addendum No. 4	☐ Addendum No. 9
☐ Addendum No. 5	☐ Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Ghosh Engineers, Inc.

Company

Authorized Signature

4/9/2020

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

SOLICITATION NUMBER: CEOI 0310 DNR2000000006
Addendum Number: No.01

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

[ ] Modify bid opening date and time

[ ] Modify specifications of product or service being sought

[✓] Attachment of vendor questions and responses

[ ] Attachment of pre-bid sign-in sheet

[ ] Correction of error

[ ] Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. Vendor submitted questions and Agency responses.

No other Changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.

2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

CEOI DNR 0310 DNR2000000006
A&E SVC's Palestine Fish Hatchery Upgrades Project
Vendor submitted Questions and Agency Responses
03/24/2020

- Vendors are reminded that Expression of Interest are solicitations advertised by the Agency to identify and to obtain information from qualified vendors to their abilities to meet the Project and Goals, and their firms' Qualifications, Experience and Past performances. At this time project specifics are not relevant and provide no information regarding the prospective vendors submitted response. Please review advertised solicitation documents for required information and details.

Q.1. Is this facility intended to replace an existing building on site?

A. This facility will be new construction and will not replace any existing structure

Q.2. Is demolition of any existing buildings on site included as part of this project?

A .No demolition is anticipated as part of this project.

Q.3. How much infrastructure will be needed inside the building for cycling the water?

A. Facility will require the capability to recycle water from multiple sources and allow for sources to be kept separate. Final design of the facility will dictate the required infrastructure.

Q.4. Will this project include the equipment for pumping or will we just be re-installing existing equipment?

A. Yes, the facility will require new equipment to accomplish pumping from both a well water and surface water source(s) as well as recirculate discharge to outside retention structures or discharge points.

Q.5. How much infrastructure for water intake is needed?

A. The project will include installation of a water well and connection to existing reservoir(s) for surface water.

Q. 6. What species of fish and target production would be included in this facility?

A. Species and production rates will vary dependent on the owners need. Warm water fish species and native mussel propagation will be targeted at this facility.

Q.7. Are recirculating aquaculture systems part of the scope of this project?

A. Yes, recirculating systems are anticipated.

Q.8. What is the construction budget for this facility?

A We are not allowed by State law to disclose this information.

ADDENDUM ACKNOWLEDGEMENT FORM
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Ghosh Engineers, Inc.
Company

Authorized Signature

4/9/2020
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012


GHOSH
ENGINEERS