



BAGUIO WATER DISTRICT

"Serving Mankind is Serving God"



SUPPLEMENTAL BID BULLETIN NO. I

**PhilGEPS Solicitation No.10629191
Request for Quotation (RQ) No. 03-JO-056**

One (1) Lot Supply, Delivery, Installation and Commissioning of
One (1) unit 20 ft Containerized Ultra-Filtration System Permeate Capacity of
70m3/hr and Supply, Delivery and Installation of Two (2) units 6" In-Line Ultra
Violet Hydro Optic Disinfection System

This bulletin is issued to clarify and include the following additional information as a result of the queries raised by the prospective bidders during the pre-bid conference held on 21 March 2024 and through written request for clarifications:

REQUEST FOR QUOTATION / TERMS OF REFERENCE /QUESTIONS	CLARIFICATION / ADDENDUM / ANSWER
<i>TOR. Item V.</i> Approved Budget for the Contract	Php42,000,000.00
Historical Data/ Feed Parameters	Attached in this Bulletin as Annex "A"
<i>Terms of Reference Item I.A.5.</i> Water treatment devices and equipment shall have a Valid Certificate of Registration (CPR) issued by the Bureau of Health Devices and Technology of the Department of Health as mandated by AO No. 2005-0003 s. 2005; or any equivalent recognized international certifying body (EPA, NSF, etc.)	Bidders may submit a certificate of product specification or other document proving that their CPR is still in process, provided that the lone or lowest calculated responsive bidder submits the requirement prior to the release of the Notice of Award.
What wastewater are the bidders addressing here as far as the treatment is concerned? Will it be municipal waste, like human waste, or typical waste?	It is the oil and grease for BWD's water supply.
Other than the construction of the waste water treatment plant, do BWD expecting any services that will coincide with the technology that bidders will be providing? Will there be	It is not wastewater that bidders are going to treat. It's the water supply coming from our deep well. The impurities that will be removed will be oil and grease, and as stated in the Terms of Reference, the work will

REQUEST FOR QUOTATION / TERMS OF REFERENCE /QUESTIONS	CLARIFICATION / ADDENDUM / ANSWER
some services that BWD will require to coincide with this project?	involve the provision of the equipment and, of course, the training of the personnel of BWD who will be using the equipment.
Is there a pretreatment before UF? if yes, what is the process?	It may require a pre-filtration process.
The CIP tank is too big to integrate it into 20-ft container. Can the tank be placed outside?	Available dimension on site is 7.4m x 4.0m
Request for Quotation UF Feed CUM CIP Pump UF Backwash CUM CIP Pump	The CUM term is combined with CIP Pup
The CIP pump does not have specific specifications?	Yes.
Is it okay to use China brand components?	For as long as it passes, the certification comes from the FDA and other certification bodies or agencies.
According to the document, there's a pre-filtration needed using cartilage; is this BWD's requirement in the UF? Since it is in the invitation to bid document, do bidder required to submit it their bids? Can bidder modify or use pre-treatments other than cartilage to use as pre-filtration prior to UF?	The one stated in the specification should be the one to be utilized.
Prior to cartridge, can bidder add another pre-treatment of UF protection?	Provided that the cost will not be affected. Bidder can add pre-treatment.
Request for Quotation, Page 2 Ultra-Filtration Membrane Skid No. of Modules: 30 Nos.	30 is the maximum number of modules
In the Terms of Reference, it is indicated that the installation is 60 days, is this for both UF and UV?	Yes, for both UF and UV.
Concentration of oil and grease	Maximum of 2.0mg/li (March 13, 2017)
Can bidder use Polyvinylidene Fluoride (PVDF) UF material, which is more advanced than Poly Alco Nitrile (PAN).	Follow BWD Specifications
Can the bidder modify the amount of UF membranes based on their area? Because the single membrane area of	Follow BWD Specifications



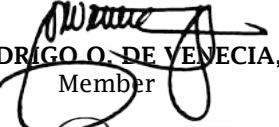

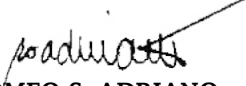
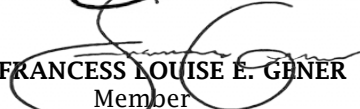

REQUEST FOR QUOTATION / TERMS OF REFERENCE / QUESTIONS	CLARIFICATION / ADDENDUM / ANSWER
different UF brands differs, so does the quantity.	
The certification requirement for the sleeve manufacturer is quite strict. Can BWD provide more details or insights to address uncertainties in procurement? Such which kind of certificate?	As stated in the Terms of Reference
Is the valid certificate of drinking water for the whole containerized Ultra Filtration or just for main equipment and materials?	It is the equipment.
UV Configuration	2 x 150 cu.m/hr
<i>Request for Quotation Envelope A, Item C. Brochure "Original"</i>	
Is it for the whole system or brochure of each equipment in the system	The brochure of the design.
Is UV a subsequent sterilization treatment device for containerized UF system? Does it need to be installed in the UF container?	The UV Optic Disinfection will take place when the UF System has been installed separately with housing/shed enclosure.
END	

All other requirements in the Request for Quotation and Terms of Reference shall remain to be in full force and effect.

For guidance and information of all concerned.

Issued this 26th day of March 2024.

Bids and Awards Committee:

 ATTY. MA. LUISA C. TENEDERO Chairperson		
 ENGR. NORIEL C. CALPITO Vice-Chairperson	 RODRIGO O. DE VENEZIA, JR. Member	 ENGR. DOMINIC T. AGUSDAN Member
 ROMEO S. ADRIANO Member	 ATTY. FRANCES LOUISE E. GERNER Member	 ENGR. SHAYNE MARGIE S. ABELLERA Member



REGIONAL STANDARDS AND TESTING LABORATORY

TEST REPORT

Request Reference No: R1-032017-CHE-0248
Date Submitted : March 22, 2017
Date Analyzed : March 31, 2017
Date Reported : April 07, 2017
Sample Submitted : WATER
Customer : **BAGUIO WATER DISTRICT**
Address : Baguio City, Benguet
Page No : 1 of 1

TEST REPORT NO. **CHM-294**

Sample Number	Sample Description	Test Method	Result
CHE-0294	Deep Well Water (City Hall after Treatment)	Oil and Grease	1.0 mg/L

METHODOLOGY:

Oil and Grease

Procedure Description: Partition-Gravimetric Method, 5520 B. Following Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012.

REMARKS:

The results given in this report are obtained at the time of the test and refer only to the particular sample submitted. This report shall not be reproduced except in full, without the written approval of the laboratory.

LENA C. ROSARIO
Registered Chemist
Reg. No. 0011816
Science Research Specialist II

APPROVED FOR RELEASE:

ANITA A. CRISTE
Registered Chemist
Reg. No. 0005613
Quality Manager/ Laboratory Head
PAB APPROVED SIGNATORY



DENR Recognized
Environmental Laboratory
C.R. No. 064/2011



REGIONAL STANDARDS AND TESTING LABORATORY

TEST REPORT

Request Reference No: R1-032017-CHE-0248
Date Submitted : March 22, 2017
Date Analyzed : March 31, 2017
Date Reported : April 07, 2017
Sample Submitted : WATER
Customer : **BAGUIO WATER DISTRICT**
Address : Baguio City, Benguet
Page No : 1 of 1

TEST REPORT NO. **CHM-293**

Sample Number	Sample Description	Test Method	Result
CHE-0293	Deep Well Water (City Hall before Treatment)	Oil and Grease	<1.0 mg/L


METHODOLOGY:

Oil and Grease

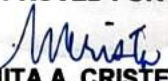
Procedure Description: Partition-Gravimetric Method, 5520 B. Following Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012.

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REGIONAL STANDARDS AND TESTING LABORATORY

TEST REPORT

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OC ABT DC / TAB

Request Reference No: R1-032017-CHE-0248
Date Submitted : March 22, 2017
Date Analyzed : March 31, 2017
Date Reported : April 07, 2017
Sample Submitted : WATER
Customer : **BAGUIO WATER DISTRICT**
Address : Baguio City, Benguet
Page No : 1 of 1

TEST REPORT NO. **CHM-295**

Sample Number	Sample Description	Test Method	Result
CHE-0295	Deep Well Water (Camp Allen before Treatment)	Oil and Grease	2.0 mg/L

METHODOLOGY:

Oil and Grease

Procedure Description: Partition-Gravimetric Method, 5520 B. Following Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012.

REMARKS:

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Len C. Rosario
LENA C. ROSARIO
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REGIONAL STANDARDS AND TESTING LABORATORY

TEST REPORT

Request Reference No: R1-032017-CHE-0248
Date Submitted : March 22, 2017
Date Analyzed : March 31, 2017
Date Reported : April 07, 2017
Sample Submitted : WATER
Customer : **BAGUIO WATER DISTRICT**
Address : Baguio City, Benguet
Page No : 1 of 1

TEST REPORT NO. **CHM-296**

Sample Number	Sample Description	Test Method	Result
CHE-0296	Deep Well Water (Camp Allen after Treatment)	Oil and Grease	<1.0 mg/L


METHODOLOGY:

Oil and Grease

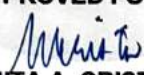
Procedure Description: Partition-Gravimetric Method, 5520 B. Following Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012.

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REGIONAL STANDARDS AND TESTING LABORATORY

TEST REPORT

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Date Submitted : March 22, 2017
Date Analyzed : March 31, 2017
Date Reported : April 07, 2017
Sample Submitted : WATER
Customer : **BAGUIO WATER DISTRICT**
Address : Baguio City, Benguet
Page No : 1 of 1

TEST REPORT NO. **CHM-293**

Sample Number	Sample Description	Test Method	Result
CHE-0293	Deep Well Water (City Hall before Treatment)	Oil and Grease	<1.0 mg/L

METHODOLOGY:

Oil and Grease

Procedure Description: Partition-Gravimetric Method, 5520 B. Following Standard Methods for the Examination of Water and Wastewater, 22nd Edition, 2012.

REMARKS:

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C.R. No. 064/2011



CRL Environmental Corporation

20 July 2022

Baguio Water District

003, Purok BWD, Brgy. Marcoville, Baguio City

Contact No.: 074-4424858

ATTN: **Engr. Perkins Macalma**

Project Name: TESTING OF CAMP ALLEN DEEPWELL

Lab. No.: P00127753-01

Enclosed are the results for sample received by CRL Environmental Corporation and tested for the parameters in the enclosed chain of custody.

Our DENR Recognition Certificate with C. R. No. 023/2021, will expire on August 25, 2024.

Likewise, our DOH Accreditation with Accreditation No. 03-001-20-LW-2, is valid from January 01, 2020 until December 31, 2022.

Please note that any unused portion of the sample/s will be discarded 15 days after the date of this report, unless you have requested otherwise.

Thank you for the opportunity to service the needs of your company. Please feel free to call us at (045) 599-3943 or (02) 552-5100 if we can be of further service to you.

Very truly yours,


MARIA CARMELA Q. CAPULE, Ph.D.
Chief Operating Officer

Results of Analyses

Baguio Water District

003, Purok BWD., Brgy. Marcoville, Baguio City
Contact No.: 074-4424858

SN: F00097041.002

Date Received:

07/07/2022

Lab No.: P00127753

Project Name: TESTING OF CAMP ALLEN DEEPWELL

Attention: Engr. Perkins Macalma

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
Sample No.: P00127753-01			Date Sampled: 07-07-22 09:30			
Sample ID: CAMP ALLEN DEEPWELL			Matrix: Deepwell Water			
-Metals-						
Arsenic	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	07/13/22	PPG	
Cadmium	< 0.001	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	07/13/22	PPG	
Lead	< 0.005	mg/L	ICP - OES (SMEWW 3120B / USEPA 6010B)	07/13/22	PPG	
-Microbiology-						
Heterotrophic Plate Count	10	CFU/mL	Pour Plate Method (35°C/48 h, Plate Count Agar) (SM 9215 B)	07/08/22	CBS	
Thermotolerant Coliform / E. coli	<1.1	MPN/100mL	Multiple Tube Fermentation Technique (SM 9221 E1)	07/08/22	CBS	
-Wet Chemistry-						
pH Laboratory @ 25.0°C	7.2	-	Electrometric Method (SM 4500-H+ B)	07/08/22	MLJ	
Color	5	Apparent CU	Visual Comparison	07/08/22	MPT	
Turbidity	0.85	NTU	Nephelometry (Turbidimeter)	07/08/22	ADP	
Total Dissolved Solids	228	mg/L	Gravimetry (SM 2540 C)	07/12/22	ADP	
Oil & Grease	0.63	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	07/19/22	WBD	
Nitrate	1.3	mg/L	Cadmium Reduction Method	07/08/22	ANBB	

>>> end of result set for Sample No.: P00127753-01 <<<

>>> end of result set for Lab No.: P00127753; Total no. of sample analyzed: 1 <<<

CFU = Colony Forming Units

MPN = Most Probable Number

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition



Analyzed by:



Chaira B. Sales
Microbiological Testing

Date: 07/20/2022



Prescilla P. Gatbonton
PRC License No.: 679
Chemical Testing

Date: 07/20/2022



April D. Pineda
PRC License No.: 2641
Chemical Testing

Date: 07/20/2022

Certified by:



Geraldine T. Yabut
PRC License No.: 0027218
Microbiological Testing

Date: 07/20/2022



Ronald G. Espiritu
PRC License No.: 9248
Chemical Testing

Date: 07/20/2022



Juliana C. Oriña
PRC License No.: 8774
Chemical Testing

Date: 07/20/2022



Chas C. Arroyo
PRC License No.: 6701
Chemical Testing

Date: 07/20/2022



SN: F00097041.002

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CRL Environmental Corporation

29 November 2022

Baguio Water District

003, Purok BWD., Brgy. Marcoville, Baguio City

Contact No.: 074-4424858

ATTN: **Engr. Perkins Macalma**

Project Name: OIL AND GREASE MONITORING

Lab. Nos.: P00132646-01/02

Enclosed are the results for samples received by CRL Environmental Corporation and tested for the parameters in the enclosed chain of custody.

Our DENR Recognition Certificate with C. R. No. 023/2021, will expire on August 25, 2024.

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Very truly yours,


MARIA CARMELA Q. CAPULE, Ph.D.
Chief Operating Officer

Results of Analyses

Baguio Water District

003, Purok BWD., Brgy. Marcoville, Baguio City
Contact No.: 074-4424858

SN: F00101807.001



Date Received:

11/18/2022

Lab No.: P00132646



Project Name: OIL AND GREASE MONITORING

Attention: Engr. Perkins Macalma

Test Description	Results	Units	Test Methods	Date Analyzed	By	Ref
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Sample No.: P00132646-01

Date Sampled: 11-14-22 03:06

Sample ID: S2 CAMP ALLEN

Matrix: Groundwater

-Wet Chemistry-

Oil & Grease	1.0	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	11/19/22	WBD
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>>> end of result set for Sample No. P00132646-01 <<<

Sample No.: P00132646-02

Date Sampled: 11-18-22 09:59

Sample ID: S3 CAMP ALLEN

Matrix: Groundwater

-Wet Chemistry-

Oil & Grease	0.8	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	11/19/22	WBD
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>>> end of result set for Sample No. P00132646-02 <<<

>>> end of result set for Lab No.: P00132646; Total no. of samples analyzed: 2 <<<

Results are reported "as received basis".

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.



Analyzed by:



Winson B. Daliva
PRC License No.: 2457
Chemical Testing

Date: 11/29/2022

Certified by:



Ronald G. Espiritu
PRC License No.: 9248
Chemical Testing

Date: 11/29/2022



Juliana C. Oriña
PRC License No.: 8774
Chemical Testing

Date: 11/29/2022



Chas C. Arroyo
PRC License No.: 6701
Chemical Testing

Date: 11/29/2022



SN: F00101807.001

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CRL Environmental Corporation

18 November 2022

Baguio Water District

003, Purok BWD., Brgy. Marcoville, Baguio City

Contact No.: 074-4424858

ATTN: **Engr. Perkins Macalma**

Project Name: OIL AND GREASE MONITORING

Lab. No.: P00132347-01

Enclosed is the result for sample received by CRL Environmental Corporation and tested for the parameter in the enclosed chain of custody.

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MARIA CARMELA Q. CAPULE, Ph.D.
Chief Operating Officer

Result of Analysis

Baguio Water District

003, Purok BWD., Brgy. Marcoville, Baguio City
Contact No.: 074-4424858

SN: F00101425.001

Date Received: 11/10/2022

Lab No.: P00132347

Project Name: OIL AND GREASE MONITORING

Attention: Engr. Perkins Macalma

Test Description	Result	Unit	Test Method	Date Analyzed	By	Ref
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Sample No.: P00132347-01

Date Sampled: 11-09-22 14:43

Sample ID: CAMP ALLEN S1

Matrix: Groundwater

-Wet Chemistry-

Oil & Grease	0.7	mg/L	Gravimetry (n-Hexane Extraction) (SM 5520 B)	11/14/22	WBD	
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>>> end of result set for Sample No.: P00132347-01 <<<

>>> end of result set for Lab No.: P00132347; Total no. of sample analyzed: 1 <<<

Result is reported "as received basis".

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.



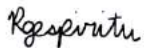
Analyzed by:



Winson B. Daliva
PRC License No.: 2457
Chemical Testing

Date: 11/18/2022

Certified by:



Ronald G. Espiritu
PRC License No.: 9248
Chemical Testing

Date: 11/18/2022



Juliana C. Oriña
PRC License No.: 8774
Chemical Testing

Date: 11/18/2022



Chas C. Arroyo
PRC License No.: 6701
Chemical Testing

Date: 11/18/2022



SN: F00101425.001

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