



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

PWGSC/TPSGC Acquisitions Bid Receiving
Box/Boîte de Réception des Soumissions
Bid Receiving Box/Boîte de Récepti
1st Floor/1ère étage, Suite 1212
100-1045 Main Street
Moncton
New Brunswick
E1C 1H1
Bid Fax: (506) 851-6759

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Acquisitions NB/PEI (Moncton Office) – Bureau
d'acquisitions N.-B./Î.-P.-É. (Moncton)
1045 Main Street / 1045, rue Main
Moncton
New Bruns
E1C 1H1

Title - Sujet Chlorination System Components Système de chloration	
Solicitation No. - N° de l'invitation 5P131-200423/A	Date 2021-03-01
Client Reference No. - N° de référence du client 5P131-200423	
GETS Reference No. - N° de référence de SEAG PW-\$MCT-043-5959	
File No. - N° de dossier MCT-0-43099 (043)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Atlantic Daylight Saving Time ADT on - le 2021-03-23 Heure Avancée de l'Atlantique HAA	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Beausoleil (MCT), Timothee	Buyer Id - Id de l'acheteur mct043
Telephone No. - N° de téléphone (902) 388-8377 ()	FAX No. - N° de FAX (902) 566-7514
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PARKS CANADA 186 RTE 117 Kouchibouguac National Park KOUCHIBOUGQUAC New Brunswick E4X2P1 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein – Voir ci-inclus	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There are no security requirements.

1.2 Statement of Requirement

The requirement is detailed under Article 6.2 of the resulting contract clauses.

1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.4 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2020/05/28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.1.1 SACC Manual Clauses

SACC Manual Clause **B1000T** (2014-06-26), Condition of Material - Bid.

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated in the bid solicitation.

PWGSC Acquisitions, Bid Receiving
1st Floor/1ère étage, Suite 1212, 100-1045 Main Street,
Moncton, NB
E1C 1H1

Epost Connect address:

TPSGC.RARceptionSoumisNBPE-ARBidReceivingNBPE.PWGSC@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

Facsimile number: (506) 851-6759

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 5 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in New Brunswick.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid 1 hard copy
Section II: Financial Bid 1 hard copy
Section III: Certifications 1 hard copy

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

Prices should appear in the financial bid only. No prices should be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of hard copy of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “C” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

C3011T (2013/11/06), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Mandatory Technical Criteria as specified in Annex D, Evaluation Criteria.

4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2014/06/26), Evaluation of Price-Bid

4.2 Basis of Selection

4.2.1 Basis of Selection - Mandatory Technical Criteria

SACC Manual Clause [A0031T](#) (2010/08/16), Basis of Selection – Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Statement of Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A](#) (2020/05/28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables of material and equipment must be received on or before April 30th, 2021.

The date for the site visit to inspect the equipment installations, provide start-up and commissioning services for the equipment, and basic training, will be confirmed by Project Authority at a later date.

6.4.2 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Timothée Beausoleil
Title: Acting Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Directorate: Acquisitions NB/PEI
Address: 161 St. Peters Road, 2nd Floor Suite 204, Charlottetown, PE, C1A 5P7
Telephone: (902) 388-8377
Facsimile: (506) 851-6759
E-mail address: Timothee.beausoleil2@pwgsc-tpsgc.gc.ca

Solicitation No. - N° de l'invitation
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5P131-200423

Amd. No. - N° de la modif.
File No. - N° du dossier
MCT-0-43099

Buyer ID - Id de l'acheteur
MCT043
CCC No./N° CCC - FMS No./N° VME

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Project Authority

The Project Authority for the Contract is:

Details will be provided in any resulting contract

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: _____
Facsimile: _____
E-mail address: _____

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail: _____

6.6 Payment

6.6.1 Basis of Payment – Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex "B" for a cost of \$ _____ **(insert the amount at contract award)**. Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Method of Payment – Multiple Payments

SACC Manual clause H1001C (2008-05-12) – Multiple Payments

6.6.3 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in New Brunswick.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2020-05-28), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Statement of Requirement;
- (e) Annex B, Basis of Payment
- (f) the Contractor's bid dated _____

6.11 SACC Manual Clauses

SACC Manual Clause **D0018C** (2007-11-30) Delivery and Unloading

SACC Manual Clause **G1005C** (2016-01-28) Insurance – No Specific Requirement

6.12 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

ANNEX "A"

STATEMENT OF REQUIREMENT

This contract consists of supply, start-up and commissioning of new chlorination systems, as per Technical Specification Requirements included in Annex "D" - Evaluation Criteria, for two of our service buildings at the South Kouchibouguac Campground. Items to be delivered at: 186 Route 117, Kouchibouguac National Park, Kouchibouguac NB, E4X 2P1. Delivery of all equipment by April 30th, 2021.

Installation:

New equipment will be installed by Parks Canada Agency (PCA) plumbers and electricians. All equipment will be installed as per manufacturer's recommendations and as specified herein.

Inspections, start-ups and commissioning:

Contractor will be required to provide at least one site visit to inspect the equipment installations, provide start-up and commissioning services for the equipment. Contractor's bid will include basic operation training and certification of performance of the systems. Arrangements will be made and confirmed by the Project Authority.

Submittals must include:

Product Data:

Manufacturer's printed product literature, specifications and data sheet for fixtures and equipment:

Shop drawings:

Submit shop drawings to indicate:

- Equipment, including connections, fittings, control assemblies and ancillaries. Identify whether factory or field assembled.
- Wiring and schematic diagrams.
- Dimensions and recommended installation.
- Pump performance and efficiency curves.
- Details on pump controllers, chlorine residual controllers and sensors.

Certificates:

Submit certificates signed by the manufacturer certifying that materials comply with performance characteristics and physical properties.

Instructions: submit manufacturer's installation instructions.

Closeout submittals:

Submit maintenance and engineering data for incorporation into the Maintenance Manual.

Include:

- Manufacturer's name, type, model year, capacity and serial number.
- Details of operation, servicing and maintenance.
- Recommended spare parts list with names and addresses.

ANNEX "B"

BASIS OF PAYMENT

Item	Description	Quantity	Prices	
			Unit price	Extended Price (HST Excl.)
1	Chlorine Analyzer and Accessories	2		
2	Chlorination Panel	2		
3	Chemical Feed Pump	2		
4	Flow Meter	2		
5	Turbidity Meter and Accessories	2		
6	Controller	2		
7	Delivery of material/equipment	1		
8	Site Visit: Onsite equipment installation inspection, start-up and commissioning service, basic training	1		
			Total Estimated Amount (HST Excluded)	

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File No. - N° du dossier
MCT-0-43099

Buyer ID - Id de l'acheteur
MCT043
CCC No./N° CCC - FMS No./N° VME

ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ () VISA Acquisition Card;
- ☐ () MasterCard Acquisition Card;
- ☐ () Direct Deposit (Domestic and International);
- ☐ () Electronic Data Interchange (EDI);
- ☐ () Wire Transfer (International Only);
- ☐ () Large Value Transfer System (LVTS) (Over \$25M)

ANNEX “D” – EVALUATION CRITERIA

TECHNICAL SPECIFICATION REQUIREMENTS:

The complete specifications and/or descriptive literature should be submitted with the proposal but may be submitted afterwards. If the complete specifications and/or descriptive literature are not submitted with the proposal, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet this requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

Alternate Proposals, or Equivalent:

Bidders may submit alternate proposals to the specifications, but such proposals will provide sufficient information (including a list of all points of non-compliance with the specifications) to permit an accurate analysis of the alternative and should preferably be in addition to a quotation in accordance with the specifications and conditions. Whether any such alternatives proposed would be considered as equivalent to the specifications will be decided by the Owner and the Engineer.

PRODUCTS:

1 - CHLORINE ANALYZER

The Chlorine Analyzer for monitoring of free or total residual chlorine will be as follows:

1. Analyser shall detect free or total chlorine using colorimetric DPD (N, N-diethyl-p-phenylenediamine) method. Amperometric method or methods employing electrodes will not be accepted.
2. Measurement Range: 0 to 5 mg/l (ppm) range and automatic colour/turbidity compensation.
3. Accuracy: $\pm 5\%$ or reading or ± 0.03 mg/l (ppm), whichever is greater.
4. Precision: 5% of reading or 0.01 mg/l (ppm), whichever is greater.
5. Minimum Detection Limit: 0.03 mg/l (ppm).
6. Resolution: 0.01 mg/l (ppm).
7. Repeatability: 0.05 mg/l (ppm).
8. Cycle time: 2.5 minutes.
9. Dual fully adjustable set-point alarms.
10. Nema 12 enclosure that is IP62 rated with a gasketed latched door.
11. Automatic self-testing diagnostics.
12. Unattended operation up to 30 days.
13. Manual and automatic feed pump control.

14. The analyzer will have two feed pump control (relay) operation modes to operate chemical feed pump. Available control operations are:

- a) On / Off control where the concentration alarm outputs activate or deactivate the pump when chlorine levels fall below or exceed acceptable levels.
- b) Proportional control where the MODBUS output is scaled to pace the feed pump proportional to the output.

15. Two alarms selectable for sample concentration, system warning or system shut-down. Each alarm equipped with at SPDT relay rated at 5A.

16. Power: 120/1/60.

Standard of Acceptance: Hach CL17 or approved equal.

Quantities: 2 units.

Accessories: 24 units of reagent sets.

2 - PRE-MOUNTED CHLORINATION PANEL

HPDE wall-mounted panel including:

1. Pressure relief valve.
2. Check valve.
3. ½" isolation ball valves.
4. Lot of PVC fittings and tubing.
5. Pressure gauge w/ diaphragm isolator.
6. 1000 ml calibration column.

Quantities: 2 units.

3 - CHEMICAL FEED PUMP

Pumps will be positive displacement type complete self-contained variable flow control, compatible with chlorine analyser and will include the following characteristics:

1. Pumps will be self-priming, and will have a maximum suction lift capability of up to 90 kPa (30 feet vertical water column).
2. Discharge Pressure Rating: Up to 690 kPa (100 psi).
3. Flow range: 0.0038 LPH-19.7 in 0.0038 LPH increments (0.001-5.2 GPH in 0.001 GPH increments).
4. Pumps will be capable of pumping both liquids and gases without vapour locking.

5. Pump will be 24 hr. continuous duty rated and have a three-year manufacturer's warranty from date of shipment.
6. Pumps will meet CE, NSF 61 and applicable electrical standards.
7. On/Off switch.
8. Clear liquid crystal display.
9. Control will be selectable between internal and external pulsing by means of a tactile keypad.
10. Pressure capacity will be keypad adjustable.
11. Drive: totally enclosed with no exposed moving parts, solid state pulse fully encapsulated.
12. Electronics will be housed in a chemical resistant enclosure.
13. Automatic pressure relief by stopping pulsing when discharge pressure exceeds pump pressure ratings by 35%.
14. Pump housing will be chemical-resistant glass fiber reinforced plastic.
15. Metering pump valves will be ball type with ceramic balls, seat and rings will be renewable.
16. Fittings and connections at pump will be PVC. Provide 5.0 m of polyethylene tubing, required valves and strainers.

Standard of Acceptance: QDOS 20 Chemical Metering Pump by Watson-Marlow or approved equal.

Quantities: 2 units.

4 - FLOW METER

2" Flow Meter w/ Integral Transmitter having the following characteristics:

1. Constructed of NSF approved material for potable water.
2. Liner: Hard Rubber.
3. Input and Output Signal Type: MODBUS RTU RS485

Standard of Acceptance: WaterMaster Electromagnetic Flowmeter by ABB or approved equal.

Quantities: 2 units

5 - TURBIDITY METER

Process turbidimeter with 360° and 90° detection including the following characteristics:

1. Light Source: Class 2 laser product, with embedded 650 nm (EPA 0.43 mW) or Class 1 laser product, with embedded 850 nm (ISO), max. 0.55 mW (complies with IEC/EN 60825-1 and to 21 CFR 1040.10 in accordance with Laser Notice No. 50).

2. Range:

- a) EPA: 0 – 700 NTU / FNU / TE/F / FTU
- b) EPA: 0 – 100 mg/L
- c) EPA: 0 – 175 EBC
- d) ISO: 0 – 1000 NTU / FNU / TE/F / FTU
- e) ISO: 0 – 100 mg/L
- f) ISO: 0 – 250 EBC

3. Accuracy:

- a) $\pm 2\%$ or 0.01 NTU from 0 – 40 NTU
- b) $\pm 10\%$ of reading from 40 – 1000 NTU based on Formazin primary standard.

4. Resolution: 0.0001 NTU / FNU / TE/F / FTU / EBC **Repeatability:** Better than 1% of reading or ± 0.002 NTU

5. Stray Light: < 10 mNTU

6. Units: NTU, FNU, TE/F, FTU, EBC

7. Signal Average Time: 5 – 90 seconds

8. Response Time: T90 < 30 seconds at 100 mL/min.

9. Sample Temperature: 2 - 60°C (35 - 140°F)

10. Sample Pressure: 6 bar (87 psi) max., compared to air at sample temperature range from 2 - 40°C (35.6 - 104°F)

11. Sample flow rate: 100 – 1000 mL/min; optimal flow rate 200 – 500 mL/min.

12. Operating Temperature Range: 0 - 50°C (32 - 122°F)

13. Operating Humidity: Relative humidity: 5 – 95% at different temperatures, non-condensing

14. Storage Conditions: -40 - 60°C (-40 - 140°F)

15. Certifications: CE compliant. US FDA accession no.: 1420493-000 EPA version, 1420492-000 ISO version

16. Physical characteristics: Dimensions: 249 mm H x 268 mm W x 190 mm H / Weight: 5.95 lbs. (2.7 kg) – 11 lbs. (5.0 kg) with all accessories.

17. Warranty: 1 year.

Standard of Acceptance: Hach Model TU5300 or approved equal.

Quantities: 2 units

Accessories:

- a) 2 units of Stabcal Calibration Set w/ RFID
- b) 2 units of Calibration Lid for Turbidimeters
- c) 2 units of process vials.

6 - TURBIDITY METER CONTROLLER

Universal type controller. Works with analog and digital sensors.

1. Display: Large, high-resolution, trans-reflective display (160 x 240 pixels), (48 x 68 mm), (1.89 x 2.67 in.). LED backlighting.
2. Power Requirements: 100 – 240 V AC, 24 V DC, 50/60 Hz
3. Operating Temperature Range: -20 to 60°C, 0 to 95% RH non-condensing
4. Security: 2 levels - password protected SD card and service cable.
5. Enclosure Rating: NEMA 4X/IP66
6. Conduit Openings: ½ in. NPT Conduit
7. Memory Backup: Flash memory
8. Relay – Operational Mode: Primary or secondary measurement, calculated value (dual channel) or timer
9. Relay Functions: Scheduler (Timer), Alarm, Feeder Control, Event Control, Pulse Width Modulation, Frequency Control, and Warning
10. Relays: For electromechanical SPDT (Form C) contacts, 1200 W, 5 A
11. Data Management
12. Sensor Inputs: 2 Max. – digital and/or analog with sensor card.
13. Analog Inputs: 1 analog input signal – analog 4-20mA card
14. Analog Outputs: 2 standard – optional 3 additional to isolated current outputs, max. 550 Ω, Accuracy: ± 0.1% of FS (20mA) to 25°C, ± 0.5% of FS over -20°C to 60°C range
15. Analog Output Functional Mode: Linear, Logarithmic, Bi-Linear, PID
16. Digital Communication: MODBUS RS232/RS485, PROFIBUS DPV1, or HART 7.2 optional.

17. Electrical Certifications:

a) EMC

b) CE compliant for conducted and radiated emissions: CISPR 11 (Class A Limits) and EMC immunity EN 61326-1 (Industrial Limits)

c) cETLus safety mark for: General Locations per ANSI/UL 61010-1 & CAN/CSA C22.2. No. 61010-1 and Hazardous Location Class 1, Division 2, Groups A,B,C and D (Zone 2, Group IIC) per FM 3600 / FM 3611 & CSA C22.2 No. 213 M1987 with approved options and appropriately rated Class 1, Division 2 or Zone 2 sensors

d) cULus safety mark for: General Locations per UL 61010-1 & CAN/CSA 22.2. No. 61010-1

Standard of Acceptance: Hach Model sc200 or approved equal.

Quantities: 2 units