

MEMORANDUM TO PARLIAMENT

SUBMITTED BY:

**KEN OFORI-ATTA
(MINISTER FOR FINANCE)**

TITLE:

**REQUEST FOR APPROVAL FOR TAX EXEMPTION ON MATERIALS
AND EQUIPMENT TO BE PROCURED FOR THE IMPLEMENTATION
OF THE SEKONDI-TAKORADI WATER SUPPLY REHABILITATION
AND EXPANSION PROJECT PHASE 1**

3/8
31 OCTOBER, 2022

1.0 ACTION REQUIRED

1.1 Hon. Members of Parliament are respectfully invited to consider and approve the request for waiver of Import Duties, Import VAT, Import NHIL, GETFund Levy, EXIM Levy, Special Import Levy and COVID-19 Health Recovery Levy of **(€16,323,382.00)** Sixteen Million Three Hundred and Twenty-Three Thousand Three Hundred and Eighty-Two Euros on materials and equipment to be procured for the implementation of the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project (Phase 1) by Messrs. STRABAG AG of Austria.

1.2 Cabinet at the 38th Meeting held on Thursday October 6, 2022 approved the request for tax exemption on materials and equipment to be procured to ensure the smooth implementation of the project.

2.0 BACKGROUND TO THE PROJECT

2.1 Parliament, at the Ninth Sitting of the Third Meeting held on Tuesday, 20th October, 2020 approved by resolution:

- The Commercial Agreement between the Government of Ghana (represented by the Ministry of Sanitation and Water Resources/Ghana Water Company Limited and Messrs. STRABAG AG of Austria for an amount of Seventy Million Euros (€70,000,000.00) for the implementation of the First Phase of the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project;
- The OeKB- Backed Facility Agreement between the Government of Ghana acting through the Ministry of Finance and Commerzbank AG, for an amount of Seventy-Million, Seven Hundred and Thirty-Three Thousand, Four Hundred and Twenty-Three Euros ((€70,733,423.00) to finance the First Phase of the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project; and
- The tied Commercial Loan Facility Agreement between the Government of Ghana acting through the Ministry of Finance and Commerzbank AG for an amount of Ten Million, Five Hundred Thousand Euros (€10,500,000.00) to finance the First Phase of the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project.

2.2 Sekondi and Takoradi are the administrative and regional capitals of the Western Region. The existing Sekondi-Takoradi Water Supply System supplies water to the twin cities and its surrounding towns and villages. The Inchaban and Daboase Water Treatment Plants were built in 1928 and 1969 respectively. The existing water supply systems are based on surface water from the Anankwari and Pra Rivers.

2.3 The installed capacity of the two plants is 45,000m³/day of water but the current production is estimated at 30,000m³/day. The quantity of water currently produced is thus far from enough in meeting the current demand of about 100,000m³/day.

2.4 The Sekondi-Takoradi Metropolitan area has witnessed one of the most dramatic population growth rates in the country, increasing from about 372,391 inhabitants in 2000 to 559,548 in 2010(GSS 2010); a trend which appears likely to increase as the town continues to discover greater potential for socio-economic growth. The rapid rate of socio-economic transformation in these two cities and the surrounding communities, has however, not been matched by the delivery of potable water supply and other basic services thereby, threatening the health and sustainable growth of the supply area. Against the backdrop of the continued growth of Sekondi-Takoradi and the surrounding communities and in keeping with the country's drive towards the achievement of the Sustainable Development Goal of providing water for all, the need for the immediate expansion of the existing water supply system has become even more compelling.

2.5 Sekondi-Takoradi will require about 200,000m³/day of water by 2040. This project over the long term will involve the expansion of the existing water supply system to meet this demand. The expansion works will include the construction of an intake, a new water treatment plant with its ancillary structures, transmission and distribution pipelines, service reservoirs, standpipes and house connections.

3.0 OBJECTIVE OF THE PROJECT

The main objective of the project is to ensure that safe and potable water is supplied to the twin city of Sekondi and Takoradi and its surrounding villages and communities.

4.0 SCOPE OF THE PROJECT/PROJECT DESCRIPTION

4.1 The scope of the project includes inter alia the following:

- Construction of a river bottom ramp (overflow weir) on the Pra river in order to prevent seawater intrusion and to ensure an all-year round water supply for the new water treatment plant;
- Construction of a new intake structure for 230,000m³/day;
- Construction of 600m of DN 1200MM DI Raw Water pipeline;
- Raw water pumping station (Low Lift Pumping Station) for 230,000m³/day;
- Construction of a new 100,000m³/day conventional Water Treatment Plant complete with SCADA system for the remote operation of the plant;
- Provision of ancillary structures of the New Water Treatment Plant;
- Transmission pipeline improvement works; and
- Supply and installation of 25km of distribution pipelines.

4.2 On completion of the project, potable water will be supplied to communities like Takoradi, Effiakuma, Kwesiminstim, Kojokrom, West Tanokrom, Anaji, Sekondi, New Takoradi, Essikado, Apremdo, Kweikuma, Ntankoful, Ngyiresia, East Tanokrom, Effia Village, Fijai, Assakai, Adiembra, Kansaworado, Nkroful, Aboadze, Abusei, Apowa, Inchaban, Kefan, Dixcove Estates, Shama, Hwendo, Hotopo and surrounding villages.

5.0 JUSTIFICATION FOR GOVERNMENT'S SUPPORT FOR TAX EXEMPTION

5.1 The Government of Ghana, acting through the Ministry of Sanitation and Water Resources and its agency, the Ghana Water Company Limited upon signing of the Commercial Agreement for the implementation of the project is expected to abide by and satisfy conditions provided under the agreement.

5.2 Under Clause 14.1 of the Particular Conditions of Contract (PCC) of the Commercial Contract between the Ghana Water Company Limited and STRABAG AG of Austria, the Contract Price is exclusive of taxes and duties with the exception of port clearing and handling charges that have been included in the contract price.

5.3 Following from the above, the Government of Ghana is required to bear the component of the project financing cost covering taxes, duties, fees and other applicable fiscal levies which may be imposed in the Republic of Ghana with respect to the importation of materials and

equipment and the procurement of goods and services locally for the execution of the project, hence the justification for the request for tax and duty exemption on the core project related materials and equipment.

5.4 The exempted amount would therefore constitute the revenue forgone by Government.

6.0 ASSESSMENT OF DUTIES, TAXES AND LEVIES TO BE EXEMPTED

The Ghana Revenue Authority (GRA) has assessed the quantum of taxes and duties payable on materials and equipment to be imported under the project at the cedi equivalent of €16,323,382.00.

SUMMARY TABLE OF TOTAL EXEMPTION BEING SOUGHT

Tax type	Taxes assessed	Tax waiver amount (€)
Imports (A)	Import Duty	6,183,511.00
	NHIL/GETFund	2,406,368.00
	Import VAT	6,316,716.00
	Exim Levy	419,047.00
	Special Import Levy	439,010.00
	COVID-19 Levy	558,730.00
	Total (A)	

7.0 CONCLUSION

Considering the socio-economic benefits that the completion of the project is envisaged to bring to bear on the lives of the people in the areas to be covered under the project, Parliament is respectfully requested to consider and approve the request for tax exemption to enable us meet the tax waiver requirement under Clause 14.1 of the Commercial Agreement.


KEN OFORI-ATTA
(MINISTER FOR FINANCE)

ATTACHMENTS:

1. Copy of Cabinet approval for tax exemption;
2. Copies of Parliamentary approval of Loan facility;
3. Copy of Parliamentary resolution of the Commercial Agreement;
4. Copy of relevant sections of Commercial Contract and the Particular Conditions of Contract;
5. Tax assessment by the Ghana Revenue Authority.
6. Value For Money Report

SECRET



OFFICE OF THE PRESIDENT

SECRETARY TO THE CABINET

Jubilee House, Accra
Digital Address: GA-000-0288

My Ref No. OPCA.3/3/101022
Kindly quote this number and date on all correspondence

Your Ref No.



10th October, 2022

REQUEST FOR APPROVAL FOR TAX EXEMPTION ON MATERIALS AND EQUIPMENT TO BE PROCURED FOR THE IMPLEMENTATION OF THE SEKONDI-TAKORADI WATER SUPPLY REHABILITATION AND EXPANSION PROJECT PHASE I

Cabinet at its Thirty-eighth meeting held on Thursday, 6th October, 2022 considered a report of the Cabinet Committee on Economic Matters, on the above-stated Memorandum submitted by the Minister for Finance.

2. The Memorandum requested Cabinet to consider, approve and recommend to Parliament, the waiver of Import Duties, Import VAT, Import NHIL, GETFund Levy, EXIM Levy, Special Import Levy and COVID-19 Health Recovery Levy of Sixteen million three hundred and twenty-three thousand, three hundred and eighty-two Euros (EUR16,323,382.00) on materials and equipment to be procured for the implementation of the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project (Phase 1) by Messrs. STRABAG AG of Austria.

3. Cabinet approved the Memorandum for the consideration of Parliament.

4. I should be grateful if you could take requisite action on the decision by Cabinet.

MERCY DEBRAH-KARIKARI
SECRETARY TO THE CABINET

THE HON. MINISTER FOR FINANCE

- cc: Chief of Staff
- Secretary to the President
- Secretary to the Vice President
- Chairperson, Cabinet Committee on Economic Matters
- Hon. Minister for Parliamentary Affairs

*Extract
KS Let get
parliamentary
minutes. Submit
12/10/22*



PARLIAMENTARY SERVICE

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and date of this letter should
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My Ref. No. OP/T/R/068/B

Your Ref:

21st Oct. 2020

THE HON. MINISTER,
MINISTRY OF FINANCE,
ACCRA.

Hon. Minister,

OeKB-BACKED LOAN FACILITY AGREEMENT BETWEEN THE GOVERNMENT OF THE REPUBLIC OF GHANA (REPRESENTED BY THE MINISTRY OF FINANCE) AND COMMERZBANK AKTIENGESELLSCHAFT [WITH ECA PREMIUM SUPPORT] FOR AN AMOUNT UP TO SEVENTY MILLION, SEVEN HUNDRED AND THIRTY-THREE THOUSAND, FOUR HUNDRED AND TWENTY-THREE EUROS (€70,733,423.00) TO FINANCE THE SEKONDI-TAKORADI WATER SUPPLY REHABILITATION AND EXPANSION PROJECT

Parliament at its Ninth Sitting of the Third Meeting held on Tuesday, 20th October, 2020 approved by resolution, the OeKB-Backed Loan Facility Agreement between the Government of the Republic of Ghana (represented by the Ministry of Finance) and Commerzbank Aktiengesellschaft [with ECA premium support] for an amount up to Seventy Million, Seven Hundred and Thirty-Three Thousand, Four Hundred and Twenty-Three Euros (€70,733,423.00) to finance the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project.

I am directed to forward to you the text of the Resolution as follows:

WHEREAS

16/3
78
14/10/20

1. By the provisions of Article 181 of the Constitution and Sections 55 and 56 of the Public Financial Management Act, 2016 (Act 921), the terms and conditions of all government borrowings shall be laid before Parliament and shall not come into operation unless the terms and conditions are approved by a resolution of Parliament in accordance with article 181 of the Constitution;
2. Pursuant to the provisions of the said Article 181 of the Constitution and Sections 55 and 56 of the Public Financial Management Act, 2016 (Act 921), at the request of the Government of the Republic Ghana acting through the Minister responsible for Finance, there has been laid before Parliament an OeKB-Backed Loan Facility Agreement between the Government of the Republic of Ghana (represented by the Ministry of Finance) and Commerzbank Aktiengesellschaft [with

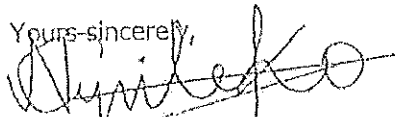
ECA premium support] for an amount up to Seventy Million, Seven Hundred and Thirty-Three Thousand, Four Hundred and Twenty-Three Euros (€70,733,423.00) to finance the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project.

**THIS HONOURABLE HOUSE HEREBY RESOLVES AS
FOLLOWS:**

In accordance with the provisions of the said Article 181 of the Constitution and Sections 55 and 56 of the Public Financial Management Act, 2016 (Act 921), this House approves, by resolution, the OeKB-Backed Loan Facility Agreement between the Government of the Republic of Ghana (represented by the Ministry of Finance) and Commerzbank Aktiengesellschaft [with ECA premium support] for an amount up to Seventy Million, Seven Hundred and Thirty-Three Thousand, Four Hundred and Twenty-Three Euros (€70,733,423.00) to finance the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project.

The Resolution is respectfully submitted for your appropriate action.

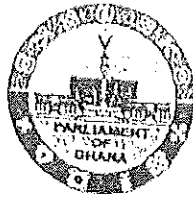
Yours sincerely,



CYRIL K. O. NSIAH

Clerk to Parliament

Cc: Hon. Minister for Parliamentary Affairs.
Hon. Attorney-General and Minister for Justice.
Hon. Minister for Sanitation and Water Resources.



PARLIAMENTARY SERVICE

Parliament House - Accra (Ghana)

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My Ref. No. OP/T/R/0680/B

Your Ref. No.

21st OCT. 2020

THE HON. MINISTER,
MINISTRY OF FINANCE,
ACCRA.

Hon. Minister,

COMMERCIAL LOAN FACILITY AGREEMENT BETWEEN THE GOVERNMENT OF THE REPUBLIC OF GHANA (REPRESENTED BY THE MINISTRY OF FINANCE) AND COMMERZBANK AKTIENGESELLSCHAFT FOR AN AMOUNT UP TO TEN MILLION, FIVE HUNDRED THOUSAND EUROS (€10,500,000.00) TO FINANCE THE SEKONDI-TAKORADI WATER SUPPLY REHABILITATION AND EXPANSION PROJECT

Parliament at its Ninth Sitting of the Third Meeting held on Tuesday, 20th October, 2020 approved by resolution, the Commercial Loan Facility Agreement between the Government of the Republic of Ghana (represented by the Ministry of Finance) and Commerzbank Aktiengesellschaft for an amount up to Ten Million, Five Hundred Thousand Euros (€10,500,000.00) to finance the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project.

I am directed to forward to you the text of the Resolution as follows:

WHEREAS


1. By the provisions of Article 181 of the Constitution and Sections 55 and 56 of the Public Financial Management Act, 2016 (Act 921), the terms and conditions of all government borrowings shall be laid before Parliament and shall not come into operation unless the terms and conditions are approved by a resolution of Parliament in accordance with article 181 of the Constitution;
2. Pursuant to the provisions of the said Article 181 of the Constitution and Sections 55 and 56 of the Public Financial Management Act, 2016 (Act 921), at the request of the Government of the Republic Ghana acting through the Minister responsible for Finance, there has been laid before Parliament a Commercial Loan Facility Agreement between the Government of the Republic of Ghana (represented by the Ministry of Finance) and Commerzbank Aktiengesellschaft for an amount up to Ten Million, Five Hundred Thousand Euros (€10,500,000.00) to finance the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project.

THIS HONOURABLE HOUSE HEREBY RESOLVES AS FOLLOWS:

In accordance with the provisions of the said Article 181 of the Constitution and Sections 55 and 56 of the Public Financial Management Act, 2016 (Act 921), this House approves, by resolution, the Commercial Loan Facility Agreement between the Government of the Republic of Ghana (represented by the Ministry of Finance) and Commerzbank Aktiengesellschaft for an amount up to Ten Million, Five Hundred Thousand Euros (€10,500,000.00) to finance the Sekondi-Takoradi Water Supply Rehabilitation and Expansion Project.

The Resolution is respectfully submitted for your appropriate action.

Yours sincerely,



CYRIL K. O. NSIAH
Clerk to Parliament

Cc: Hon. Minister for Parliamentary Affairs.
Hon. Attorney-General and Minister for Justice.
Hon. Minister for Sanitation and Water Resources.

CONTRACT AGREEMENT

SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Between

GHANA WATER COMPANY LIMITED

And

STRABAG AG

(CONTRACT NO. 408)

h f

[Signature]

CONTRACT AGREEMENT

This Contract Agreement made the 9th day of November 2021

Between

Ghana Water Company Limited (GWCL), a state-owned limited liability company established under the laws of the Republic of Ghana having its registered office at, 28th February Road, P. O. Box M 194, Accra in the Republic of Ghana (hereinafter called "the Employer"), which expression shall where the context so admits include its legal successor(s) and assigns in title of the one part.

And

STRABAG AG, a company established under the laws of the Federal Republic of Austria with its registered office at Ortenburger Strasse 27, A-9800, Spittal an der Drau, Austria (hereinafter called "the Contractor"), which expression shall where the context so admits include its legal successor(s) and assigns in title of the other part.

Whereas the Employer is desirous that the Works known as "Sekondi-Takoradi Water Supply Expansion Project" should be designed and executed by the Contractor and has accepted a Proposal by the Contractor for the design, execution and completion of such Works and remedying of any defects therein at a total Accepted Contract Amount of EUR 70,000,000 (Seventy Million Euros) consisting of the Accepted Contract Amount of EUR 68,950,000 (Sixty-Eight Million Nine Hundred and Fifty Thousand Euros) for the Contractor's scope with a contract duration of 40 months and the additional amount of EUR 1,050,000 (One Million and Fifty Thousand Euros) for the Employer's Engineering Supervision and Institutional support.

The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Particular Conditions of the Contract.

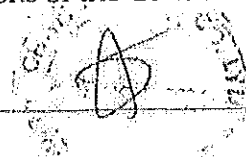
NOW IT IS AGREED by the Employer and the Contractor as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement:
 - (a) Minutes of Value for Money (VfM) Audit Contract Negotiation Meetings dated 27th September, 2021;
 - (b) The Contract Agreement;
 - (c) Minutes of Negotiation Meetings between GWCL and STRABAG AG dated 22nd July, 2020;
 - (d) Particular Conditions of the Contract including the Appendix to Particular Conditions;
 - (e) Conditions of Contract for Plant and Design-Build FIDIC 1999 Edition, General Conditions;
 - (f) Employer's Requirements;
 - (g) The Contractor's Proposal including:
 - i. Bill of Quantities;
 - ii. Drawings;
 - iii. Project Implementation Schedule;
 - iv. Schedule of Guarantees (Advance Payment Guarantee, Performance Security and Retention Guarantee)
 - (h) Any other documents forming part of the Contract.

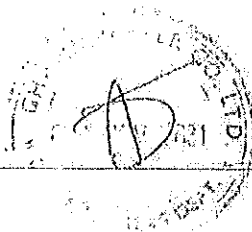
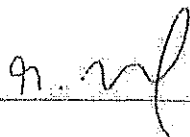
In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed above.

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to design, execute and complete the Works and remedy any defects therein in conformity with the provisions of the Contract.

[Handwritten signature]



4. The Employer hereby covenants to pay the Contractor, in consideration of the design, execution and completion of the Works and the remedying of defects therein, the Contract Price at the times and in the manner prescribed by the Contract.
5. The Contract shall come into full force and effect on the date when all the following conditions precedent have been fulfilled:
 - (a) Signing of the Contract Agreement by both Parties, and
 - (b) Cabinet and Parliamentary Approval, and
 - (c) Signing of the Loan Agreement(s) between the Ministry of Finance and the donating banks ("financial close"), and
 - (d) Approval of the Agreement in accordance with Ghana's Public Procurement Act (Act 663 of 2003) as amended;
 - (e) Satisfactory completion of the Value for Money (VfM) process;
 - (f) Receipt of the Performance Security by the Employer;
 - (g) Receipt of the Advance Payment Guarantee by the Employer and corresponding receipt of the Advance payment by the Contractor.
6. The date on which all these conditions have been satisfied shall be the Effective Date of Contract. Both Parties shall confirm the date of effectiveness in writing accordingly.



In Witness whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws on the day, month and year indicated above.

Signed by:
For and on behalf of
Ghana Water Company Limited
(GWCL)

Signed by:
For and on behalf of
STRABAG AG

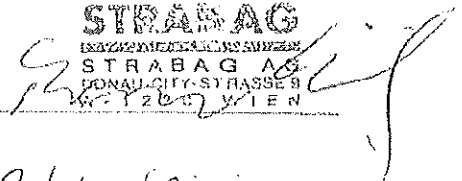
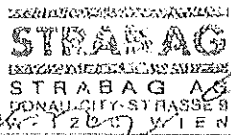
Name: 

Name: Manfred Rauch

Title: ING. DR. CLIFFORD A. BRAIMAH
(MANAGING DIRECTOR)
GHANA WATER COMPANY LTD.
P. O. BOX MB 194, ACCRA

Title: Head of Technical Management
Group International

Signature: _____

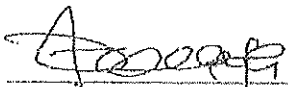
Signature: 

STRABAG AG
DONAU-CITY-STRASSE 9
1140 WIEN

Date: _____


Date: 9/11/21


In the presence of:


In the presence of:

Name: 
Title: JEMIMA TOSEAFA (MRS)
CHIEF MANAGER
(LEGAL SERVICES)
GHANA WATER COMPANY LTD.
P. O. BOX MB 194, ACCRA

Name: Gerald Saltier

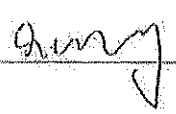

Signature: 

Title: HEAD OF COMMERCIAL MANAGEMENT
GROUP INTERNATIONAL

STRABAG AG
DONAU-CITY-STRASSE 9
1140 WIEN

Signature: 

Date: 4/11/21

Date: 9/11/21



PARTICULAR CONDITIONS OF CONTRACT (PCC)

The General Conditions of Contract for **Plant and Design-Build**, First Edition 1999 published by FIDIC, shall be adopted for this Contract, with the following Particular Conditions, which include amendments and additions to such General Conditions.

Wherever there is a conflict between these Particular Conditions and the General Conditions of Contract, the Particular Conditions shall prevail. The clause numbers and headings contained herein correspond to those clauses in the General Conditions of Contract (GCC).

The Contract contains the entire agreement between the Parties and supersedes any and all prior and contemporaneous written and oral agreements, proposals, negotiations, understandings and representations relating to or connected with the subject matter of this Contract.

The Parties further agree to incorporate the outcome of the Value for Money Audit Exercise into the agreed Particular Conditions of Contract (PCC) to form the final PCC that will be binding on the Parties during the implementation of the project.

1.1 Definitions

1.1.1.1 "Contract" means:

- (a) Minutes of Value for Money (VfM) Audit Contract Negotiation Meetings dated 27th September, 2021;
- (b) The Contract Agreement;
- (c) Minutes of Negotiation Meetings between GWCL and STRABAG AG dated 22nd July, 2020;
- (d) Particular Conditions of the Contract including the Appendix to Particular Conditions;
- (e) Conditions of Contract for Plant and Design-Build FIDIC 1999 Edition, General Conditions;
- (f) Employer's Requirements;
- (g) The Contractor's Proposal including;
 - i. Bill of Quantities;
 - ii. Drawings;
 - iii. Project Implementation Schedule;
 - iv. The Schedule of Guarantees - Advance Payment Guarantee, Performance Security and Retention Guarantee.
- (h) Any other documents forming part of the Contract.

1.1.1.4 References to "Tender" will be interpreted as references to the "**Contractor's Proposal**".

1.1.1.5 "Employer's Requirements" means the documents received from the Employer dated 3rd February, 2020 or as reviewed, as follows:

Schedule 1 – General Employers' Requirement

Schedule 2 – General Engineering Specifications & Ghana Water Company Limited's

Design Criteria

1.1 Design Criteria Report

1.2 General Specification for Civil & Building Works

1.3 Electrical Specification

1.4 Mechanical Specification

Schedule 3 – GSA Water Quality Specification for Drinking water

Schedule 4 – Contractor's Assessment Forms

Schedule 5 – Conditions of Particular Application (COPA)

Schedule 6 – Testing and checking of works, Equipment and SCADA

Schedule 7 – Facilities to be provided for the Employer and Employer's Supervising Engineer by Contractor

Schedule 8 – SCADA specifications

Schedule 9 – Architectural Drawings of Staff Accommodation & District Office

Schedule 10 – Operation and Maintenance Management Plan

Schedule 11 – List of Laboratory Equipment

Schedule 12 – Raw Water Data

1.1.1.7 **"Contractor's Proposal"** means the Contractor's signed offer for the Works and all other documents submitted therewith and approved by the Employer.

1.1.1.8 **"Definition of Tender"** Replace the words "Tender" and "Letter of Tender" with **"Contractor's Proposal"**.

1.1.1.9 **"Appendix to Tender"** means the completed pages entitled **Appendix to Particular Conditions** which are appended to and form part of the Particular Conditions of Contract.

1.1.2.2 **"Employer"** means **Ghana Water Company Limited**, a company incorporated and established under the laws of the Republic of Ghana having its registered office and the legal successors to this company at: 28th February Road.

1.1.2.3 **"Contractor"** means **STRABAG AG**, a company incorporated and established under the laws of the Republic of Austria having its registered office at: Ortenburger Strasse 27, A-9800, Spittal an der Drau, Austria.

1.1.3.1 **"Base Date"** means the date 28 days prior to contract effectiveness.

1.1.3.3 **"Time for Completion"** means 1200 calendar days from the Commencement Date, subject to any extensions to which the Contractor may be entitled to under Contract.

1.1.3.7 **"Defects Notification Period"** means 365 days calculated from the date on which the Works are completed as certified under Sub-Clause 10.1

Add at the end of the sub- clause:

Defects Notification can be exercised only on sections of the works that can be taken over and used by the Employer.

1.1.4.1 **"Accepted Contract Amount"** means the total amount as stated in the Contract Agreement for the execution and completion of the works and remedying of any defects.

1.1.4.2 **"Contract Price"** means the Contract Price as defined in Sub-Clause 14.1 and includes adjustments in accordance with the Contract.

1.1.5.9 Add definition, **"Project"** means the **Sekondi-Takoradi Water Supply Expansion Project**.

1.1.6.2 **"Country"** means the Republic of Ghana.

1.1.6.11 Add definition, **"Technical Specifications"** means the documents mutually agreed upon between Employer and Contractor and prepared by the Employer, which shall contain detailed technical requirements for the Contractor's establishment, and specifications for materials, equipment, workmanship, tests, and method statement submitted by the Contractor and subsequently approved by the Employer (methodology) etc.

1.5 Priority of Documents

Sub-Section 1.5 shall be deleted in its entirety and replaced with the following:

The documents forming the Contract are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the priority of documents forming the Contract shall be in accordance with the following sequence:

- (a) Minutes of Value for Money (VfM) Audit Contract Negotiation Meetings dated 27th September, 2021;
- (b) The Contract Agreement;
- (c) Minutes of Negotiation Meetings between GWCL and STRABAG AG dated 22nd July, 2020;
- (d) Particular Conditions of the Contract including the Appendix to Particular Conditions;
- (e) Conditions of Contract for Plant and Design-Build FIDIC 1999 Edition, General Conditions.
- (f) Employer's Requirements.
- (g) The Contractor's Proposal including;
 - i. Bill of Quantities;
 - ii. Drawings;
 - iii. Project Implementation Schedule;
 - iv. The Schedule of Guarantees – Advance Payment Guarantee, Performance

Security and Retention Guarantee.

(h) Any other documents forming part of the Contract.

If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction.

Clause 2 The Employer

2.2 Permits, Licenses or Approvals

Delete Sub-clause 2.2. (b) and replace with the following:

The Employer shall use its best endeavours to assist the Contractor to obtain the permits, licenses or approvals, which are necessary for the Contractor to perform the contractual obligations in Ghana, including import licenses, construction permits, movement permits, work permits and other necessary approvals.

Add the following sub-clause

2.6 Local Taxes/Charges

All taxes, duties and fees in relation to the Project occurring outside Ghana shall be paid for by the Contractor.

Consequent to Contract Execution/signing of Contract the Contractor shall submit to the Employer within 45 Days relevant documents required by the Ministry of Finance for Tax/Duty Exemption in respect of the Project whereupon the Employer shall commence the processes for application for Tax/Duty Exemption from the Ministry of Finance in accordance with the Laws of the Republic of Ghana.

The MOF tax policy position on the schedule of taxes to which the Contractor may be exempted is attached to the Minutes of negotiations of the VFM process dated September 27, 2021.

Add the following sub-clause

2.7 Disposal Areas

The Employer will use its best efforts to assist the Contractor to identify suitable disposal areas prior to the commencement of the Project. Best efforts will be exercised by the Employer in coordination with the local government authorities to provide suitable disposal areas within reasonable distance from the site.

Clause 3 The Engineer

3.1 Engineer's Duties and Authority

This Sub-Clause 3.1 shall be supplemented with the following:

The Employer shall appoint the Engineer within thirty (30) days after Contract effectiveness.

Any approvals or consents required to be given, or decisions made by the Engineer in terms of the Contract will be communicated to the Contractor within fourteen (14) calendar days from the date of submission, for a decision, as the case may be.

In particular cases this term may be extended upon agreement in writing by the Parties. Such agreement shall not be unreasonably withheld. If such approval and/or consent is not received within such period it shall be deemed obtained.

Clause 4 The Contractor

4.2 Performance Security

Maintain GCC but amend 2nd paragraph as follows:

2nd Paragraph

The Contractor shall deliver the Performance Security (at his cost) to the Employer for the purpose of commencement of Works. The Performance Security shall be issued in the form of a Bank Guarantee, from a reputable bank selected by the Contractor and acceptable to the Employer, approved by the Employer and shall be in the form annexed to the Particular Conditions.

4.16 Transport of Goods

The Sub-Clause shall be deleted and replaced with the following:

The Contractor shall deliver the Goods DAP building site (Incoterms 2020). The Contractor is responsible for transporting the Goods from the seaport to the respective site. All cost for import clearance and transport are included in the Contract Price.

Clause 5 Design

5.3 Contractor's Undertaking

Amend the first paragraph to read:

The Contractor undertakes that the design, the Contractor's Documents, the execution and the completed Works shall comply with the Laws of the Republic of Ghana and ISO or BS or EU Standards or their equivalents and other technical data provided by the Contractor as approved by the Employer.

5.6 As-Built Documents

This Sub-Clause shall be supplemented with the following:

The Contractor shall furnish to the Employer soft copy in AutoCAD and PDF format and five (5) copies in print of the as-built drawings (in A3 or otherwise agreed by both parties) of the Works, showing all Works as executed, prior to the date of Taking-Over.

Clause 6 Staff and Labour

6.1 Engagement of Staff Labour

Add the following to the General Conditions:

The Contractor shall submit to the Employer for approval the details of expatriate staff necessary to execute the work and the Employer shall use its best efforts to facilitate the formalities for obtaining visas for entry, exits and residence permits for the expatriate staff of the Contractor.

Clause 8 Commencement, Delays and Suspension

8.1 Commencement of Works

This Sub-Clause shall be deleted in its entirety and replaced with the following:

The Commencement date shall be twenty-eight (28) calendar days after the achievement of following conditions:

- (a) Signing of the Contract Agreement;
- (b) Signing of the Loan Agreement(s);
- (c) Approval of the Agreement in accordance with Ghana's Public Procurement (Amendment) ACT, 2016 (ACT 914);
- (d) Receipt of the Performance Guarantee by the Employer;
- (e) Receipt of the Advance Payment Guarantee by the Employer and corresponding receipt of the Advance payment by the Contractor.

The Commencement date shall be confirmed in writing by both Parties.

Clause 11 Defect Liability

11.1 Completion of Outstanding Work and Remedying Defects

This sub-clause shall be supplemented with the following:

The Defects Notification Period shall be as specified under Sub-clause 1.1.3.7 in the Appendix to Particular Conditions, calculated from the date of Taking-Over Certificate of the whole Works or any Section (as the case may be) issued by the Employer under Sub-clause 10.1. In the event of more than one certificate having been issued by the Employer for Taking over of Section(s), the respective dates so certified shall apply.

In the event of defects occurring during the Defects Notification Period, the Contractor undertakes to remedy the same at the earliest possible date (refer to Maintenance Response Schedule below) by either repair or replacement. The replacement of any part will extend the Defects Notification Period of that part solely under the limitation that the 1-year O&M supervision duty for the full plant is not extended in such a case. The defective parts shall become the property of the Contractor if and as soon as they have been replaced and shall be taken over by the Contractor.

Maintenance Repair Schedule to be adopted is as follows:

- 1. **Repair/remedy not more than seventy-two (72) hours:** Any defect or problem associated with the installed or rehabilitated works which affects, interrupts or prevents the production, storage, transmission and distribution of water produced at the Water Treatment Plant.
- 2. **Repair/remedy within two (2) weeks:** All defective civil works.
- 3. **Repair/remedy within two (2) weeks:** All defective electro-mechanical works.

Clause 13 Variations and Adjustments

13.1 Right to Vary

Add the following to the Sub-clause

The Parties agree that Variations may also be initiated by the Contractor for the purposes of Sub-Clause 8.1 [Commencement of Work] of the Contract.

Variations can only be agreed to the extent of the available loan agreement, so variations can be done

(i) within the scope and/or

(ii) using contingencies, but not exceeding the amount of the loan agreement.

Any variation initiated by the Contractor will be subject to the approval of the Employer's Engineer or the Employer.

Clause 14 Contract Price and Payment

14.1 The Contract Price

Sub-paragraph (b) of the first paragraph of this Sub-Clause shall be deleted in its entirety and replaced with the following:

The Contract Price excludes all taxes, duties and charges to be approved by the Tax Policy Unit of the Ministry of Finance in accordance with the relevant Laws of Ghana. All charges related to clearing and handling at the local port are included in the Contract Price.

The Engineer shall agree or determine the value of those parts of the Works which are to be measured, in accordance with Sub-Clause 3.5. Measurement shall be made of the net actual quantities of those parts, notwithstanding local practice, for the Works in BoQ Bill No. 03. Whenever the Engineer requires any part of the Works to be measured, reasonable notice shall be given to the Contractor's Representative, who shall promptly either attend or send another qualified representative to assist the Engineer in making the measurement, and supply any particulars requested by the Engineer. If the Contractor fails to attend or send a representative, the measurement made by (or on behalf of) the Engineer shall be accepted as accurate. Except as otherwise stated in the Contract, wherever any Permanent Works are to be measured by records, they shall be prepared by the Engineer. The Contractor shall, as and when requested, attend to examine and agree the records with the Engineer, and shall sign the same when agreed. If the Contractor does not attend to examine and agree these records, they shall be accepted as accurate. If the Contractor examines and disagrees the records, and/or does not sign them as agreed, then the Contractor shall notify the Engineer of the respects in which the records are asserted to be inaccurate. After receiving this notice, the Engineer shall review the records and either confirm or vary them. If the Contractor does not so notify the Engineer within 14 days after being requested to examine the records, they shall be accepted as accurate.

14.2 Advance Payment

This Sub-Clause shall be deleted in its entirety and replaced as follows:

The Employer shall make an Advance Payment, when the Contractor submits (i) the Performance Security in accordance with Sub-Clause 4.2 [*Performance Security*], and (ii) a guarantee in an amount, in Euros, equal to the Advance Payment. The Advance Payment Guarantee shall be issued by a reputable Bank in a format approved by the Employer.

The Contractor shall ensure that the guarantee is valid and enforceable until the Advance payment has been repaid, but its amount may be progressively reduced by the

amount repaid by the Contractor as indicated in the Payment Certificates. If the terms of the guarantee specify its expiry date, and the Advance payment has not been repaid by the date 28 days prior to the expiry date, the Contractor shall extend the validity of the guarantee until the Advance payment has been repaid.

The advance payment shall be repaid through percentage deductions in Payment Certificates. Unless other percentages are stated in the Appendix to Particular Conditions:

- (a) Deductions shall commence in the Payment Certificate in which the total of all certified interim payments (excluding the advance payment and deductions and repayments of retention) exceeds ten percent (10%) of the Accepted Contract Amount less Provisional Sums, and
- (b) Deductions shall be made at the amortization rate of one quarter (25%) of the amount of each Payment Certificate (excluding the advance and deductions and repayments of retention) in the currencies and proportions of the advance payment, until such time as the advance payment has been repaid.

14.3 Application for interim Payments

Replace sub-paragraph (c) of the second paragraph with the wording:

It is agreed upon by the Employer and the Contractor that no retention money shall be deducted from each interim payment. A retention guarantee, equal to 5% of the Contract Price shall be provided by the Contractor prior to processing of 1st Interim Payment Certificate to be submitted by the Contractor for Works done.

14.4 Schedule of Payments

This Sub-clause shall be deleted in its entirety and replaced with the following:

- (a) Payment Schedule for Preliminary design, Detailed design and Engineering shall be as follows:
 - (i). Twenty-five percent (25%) to be paid after site engineering survey against presentation of a commercial invoice and the site survey report by the Contractor and duly approved by the Engineer.
 - (ii). Twenty-five percent (25%) to be paid against presentation of a commercial invoice and the conceptual design drawings and duly approved by the Engineer.
 - (iii). Thirty percent (30%) to be paid after approval of the detailed design drawings, against presentation of a commercial invoice and duly approved by the Engineer.
 - (iv). Fifteen percent (15%) to be paid after construction drawings submitted by the Contractor, against presentation of a commercial invoice and duly approved by the Engineer.
 - (v). Five percent (5%) to be paid after submission of "As Built Drawings and O&M Manuals", against presentation of a commercial invoice and duly approved by the Engineer.

- (b) The proportion of the Contract Price relating to all other Works

The Price of each and every Item which does not include components of supply of Plant and/or Materials, survey and design works but including civil engineering works,

management and supervision, transportation, etc., shall be certified and paid on a monthly progress basis".

14.5 Plants and Materials intended for the Works

This Sub-clause shall be deleted in its entirety and replaced with the following:

(a) Payment Schedule for Plants and Materials that require installation shall be as follows:

(i) Forty percent (40%) shall be paid after Shipment on board the ship, against presentation of a Clean Bills of Lading (B/L), the commercial invoice, the packing list, and shipping insurance policy.

(ii) Twenty percent (20%) shall be paid on arrival at Ghana's seaport, against presentation of a copy of Arrival Statement and the commercial invoice by the Contractor.

(iii) Ten percent (10%) shall be paid on delivery to the site, against presentation of a copy of Delivery Statement and the commercial invoice by the Contractor.

(iv) Twenty-five percent (25%) shall be paid on installation, against presentation of a copy of Completion Statement and the commercial invoice by the Contractor.

(v) Five percent (5%) shall be paid against presentation of a photocopy of the Last TOC or the date when the Last TOC is deemed to have been issued in accordance with the Conditions of Contract.

(b) Payment Schedule for Plants and Materials that do not require installation shall be as follows:

(i) Fifty percent (50%) shall be paid after Shipment on board the ship, against presentation of a Clean Bills of Lading (B/L), the commercial invoice, the packing list, and shipping insurance policy;

(ii) Twenty percent (20%) shall be paid on arrival at Ghana's seaport, against presentation of a copy of Arrival Statement and the commercial invoice by the Contractor.

(iii) Thirty percent (30%) shall be paid on delivery to the Site, against presentation of a copy of Delivery Statement and the commercial invoice by the Contractor.

14.9 Payment of Retention Money

Insert the following paragraph after the first paragraph:

The Retention Money shall not be paid to the Contractor, but the Contractor shall be allowed to reduce its Retention Guarantee accordingly to 2.5%.

Insert the following paragraph after the second paragraph:

The Retention Money shall not be paid to the Contractor, but the Retention Guarantee shall be returned to the Contractor.

Clause 18 Insurance

18.1 General Requirements for Insurances

Add the following paragraph at the end of this Sub-clause:

For the avoidance of doubt, the Contractor shall be the insuring Party for the insurances required under Sub-clause 18.2, 18.3 and 18.4. The extent and types of insurance required to be taken out by the Contractor in this Contract shall comply with the laws of the Country. The Employer shall be named also as a beneficiary in all insurance policies. The Contractor shall make sure that each insurance shall be effected with insurers and in terms approved by the Employer.

18.2 Insurance for Works and Contractor's Equipment

In the last paragraph under this Sub-Clause, replace "the Base Date" with "the Commencement Date".

Maintain wording in General Conditions and add the following;

- a) Insurance for the Work and Contractor's Equipment (All Risk);
- b) Insurance for Contractor's personnel (Workmen Compensation);
- c) Insurance for Marine and Inland Transportation;
- d) Insurance against Third Party Liability;
- e) Submission of evidence of insurance to the Employer shall be within 28 days;
- f) Submission of relevant policies to the Employer shall be within 28 days.

18.5 Add new clause "Professional Indemnity Insurance"

The Contractor shall institute a professional indemnity insurance to cover the value of the contract sum pertaining to consulting services aspect to be rendered by the contractor or his representatives. The Professional Indemnity Insurance shall cover the risk of professional negligence in the design of the Works.

18.6 Add new clause "Other Insurances"

The Contractor shall comply with the provisions of all the compulsory insurance laws and regulations of the Republic of Ghana.

Clause 20 Claims, Disputes and Arbitration

20.6 Arbitration

Insert new items (a) - (f) to replace items (a) to (d) in the first paragraph as follows:

- "(a) the seat of the Arbitration shall be Accra, Ghana".
- "(b) the Language of Arbitration shall be English".
- "(c) The place of arbitration shall be Accra, Ghana".
- "(d) All disputes arising shall be settled in accordance with the Alternative Dispute Resolution (ADR) Act 2010 (Act 798).
- "(e) The Arbitral Tribunal shall consist of three (3) arbitrators. One to be appointed by

Particular Conditions of Contract

the Contractor, one to be appointed by the Employer and one by the Ghana Arbitration Centre.

"(f) Each Party shall bear its own expenses during the conduct of the Arbitration.

APPENDIX TO PARTICULAR CONDITIONS

Item	Sub-Clause	Entry
Employer's name and address	1.1.2.2 & 1.3	Ghana Water Company Limited, 28th February Road, P.O Box M.194, Accra, Ghana
Contractor's name and address	1.1.2.3 & 1.3	STRABAG AG Ortenburger Strasse 27, A-9800, Spittal an der Drau, Austria. Head Office: Donau-City Street 9, 1220 Vienna, Austria.
Engineer's name and address	1.1.2.4 & 1.3	Shall be designated by the Employer the latest at signing of the Contract Agreement
Time for Completion of the Works	1.1.3.3	1200 days
Defects Notification Period	1.1.3.7	365 days from the Taking Over of the works
Electronic transmission systems Addresses for communication	1.3	Email and fax (however communications sent by Email or fax shall be confirmed within 7 days by hard copies) <u>Employer:</u> Email: [info@gwcl.com.gh / ppd@gwcl.com.gh] <u>Contractor:</u> Email: [watertechnologies@strabag.com]
Governing Law	1.4	Laws of the Republic of Ghana
Ruling language	1.4	English
Language of communications	1.4	English
Time for access to the Site	2.1	Access to site is provided same date as Commencement of Works for the works (PCC 8.1).
Amount of Performance Security (Annex C, FIDIC Conditions, Plant & Design Build (1999)	4.2	10% of the Accepted Contract Amount in the currency in which the Contract Price is payable.
Transport of goods	4.16	The Contractor shall deliver the Goods DAP building site (Incoterms 2020). The Contractor is responsible for transporting the Goods from the seaport to the respective site. The cost for import clearance and transport

Particular Conditions of Contract

		are included in the Contract Price.
Period for notifying unforeseeable errors, faults and defects in the Employer's Requirements	5.1	14 days calculated from the Commencement date.
Normal working hours	6.5	08.00 to 17.00 on [Monday to Friday]. The Contractor can however arrange to work as and when deemed fit outside of these hours providing that this is in accordance with the existing Labour Law.
Delay Damages for the Works	8.7	0.05% per day in respect of the Works delayed
Maximum amount of Delay Damages	8.7	5% of the value of the Works delayed.
Percentage for adjustment of Provisional Sum	13.5(b)	20%
Advance Payment for the Works	14.2	15% of the Accepted Contract Amount
Number and timing of Instalments for Advance Payment	14.2	One (1).
Retention for the Works	14.3	5% in the form of a Retention Guarantee
Minimum amount of Interim Payment Certificates	14.6	Not Applicable
Currency / Currencies of Payment	14.15	Euros
Maximum amount of deductibles for insurance of the Employer's risks	18.2(d)	5% on each loss but not exceeding €50,000.
Minimum amount of third-party insurance	18.3	This insurance shall be for an aggregate limit of €5,000,000 and with a limit per occurrence of €5,000,000.
The DAB shall comprise of	20.2	Three (3) members



TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nihil/ gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Reinforcement	to	2,438	3,778,478	20%	755696	226709	595110	28339	75570	37785	1,719,207
Geotextiles	m2	15,063	70,797	20%	14159	4248	11151	531	1416	708	32,213
Steel structures	LS	1	6,250	20%	1250	375	984	47	125	63	2,884
Crane beam, rail	set	10	160,000	20%	32000	9600	25200	1200	3200	1600	72,800
Beams	kg	1,425,600	3,421,440	20%	684288	205286	538877	25661	68429	34214	1,556,755
Roof Panels	m2	7,553	596,687	20%	119337	35801	93978	4475	11934	5967	271,493
Wall Panels	m2	5,339	421,781	20%	84356	25307	66431	3163	8436	4218	191,910
Platforms	m2	725	94,250	20%	18850	5655	14844	707	1885	943	42,884
Gratings	m2	1,194	71,640	20%	14328	4298	11283	537	1433	716	32,596
Railings	m	2,199	188,915	20%	37383	11215	29439	1402	3738	1869	85,046
Stairways	m2	142	18,460	20%	3692	1108	2907	138	369	185	8,399
Ladder	m	307	19,955	20%	3991	1197	3143	150	399	200	9,080
Steel Plates	m2	172	25,800	20%	5160	1548	4064	194	516	258	11,739
Covers	m2	62	4,960	20%	992	298	781	37	99	50	2,257
Ventilatin Grill	m2	73	194,910	20%	38982	11695	30698	1462	3898	1949	88,684
Small parts	kg	34,125	69,956	20%	13991	4197	11018	525	1399	700	31,830
Cover Aluminum	m2	7	2,765	20%	553	166	435	21	55	28	1,258
Steel Supports and accessories	LS	1	431,739	20%	86348	25904	67999	3238	8635	4317	196,441
Drainage pipes	LS	1	59,000	20%	11800	3540	9293	443	1180	590	26,845
Gully, gutters	pos	87	19,227	20%	3845	1154	3028	144	385	192	8,748
Rigol	m	210	42,000	20%	8400	2520	6615	315	840	420	19,110
Fence	m	2,800	33,600	20%	6720	2016	5292	252	672	336	15,288
Air conditioning units	set	20	80,000	20%	16000	4800	12600	600	1600	800	36,400
Sheet piling (retail wall)	m2	993	248,300	20%	49660	14898	39107	1862	4966	2483	112,977
Operator's building equipment and service facilities	LS	1	138,944	20%	27789	8337	21884	1042	2779	1389	63,230
Gate automatic	Set	1	8,000	20%	1500	480	1260	60	160	80	3,640
Carbon Steel											
Carbon Steel Pipe	m	699	2,243,103	5%	112155	117763	309128	16823	44862	22431	623,162
Set of Connection parts: bends, flanges, reducers, T-pieces			1,434,348	20%	286870	86061	225910	10758	28687	14343	652,628
Elbows	pc	77	335,335	20%	67067	20120	52815	2515	6707	3353	152,577
Reduction	pc	40	111,760	20%	22352	6706	17602	838	2235	1118	50,851

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
T-piece	pc	10	37,260	20%	7452	2236	5868	279	745	373	15,953
Flanges	pc	149	260,750	20%	52150	15645	41068	1956	5215	2608	118,641
Fasteners	set	1	31,825	20%	6365	1910	5012	239	637	318	14,480
Gaskets	set	1	31,825	20%	6365	1910	5012	239	637	318	14,480
HDPE Pipe	m	4,732	927,472	20%	185494	55648	146077	6956	18549	9275	472,800
Set of Connection parts; bends flanges, reducers, T-pieces											
Elbows	pc	84	52,416	20%	10483	3145	8256	393	1048	524	23,849
Reduction	pc	42	19,656	20%	3931	1179	3096	147	393	197	8,943
T-piece	pc	66	32,736	20%	6547	1964	5156	246	655	327	14,895
Flanges	pc	86	26,230	20%	5246	1574	4131	197	525	262	11,935
Fasteners	set	1	15,956	20%	3191	957	2513	120	319	160	7,260
Gaskets	set	1	15,956	20%	3191	957	2513	120	319	160	7,260
Stainless Steel											
Stainless Steel Pipe	m	683	937,076	20%	187415	56225	147589	7028	18742	9371	426,370
Set of Connection parts; bends flanges, reducers, T-pieces											
Elbows	pc	120	241,800	20%	48360	14508	38084	1814	4836	2418	110,913
Reduction	pc	10	12,720	20%	2544	763	2003	95	254	127	5,785
T-piece	pc	22	21,208	20%	4242	1272	3340	159	424	212	9,650
Flanges	pc	149	148,404	20%	29681	8904	23374	1113	2968	1484	67,524
Fasteners	set	1	13,843	20%	2769	831	2180	104	277	138	6,299
Gaskets	set	1	13,843	20%	2769	831	2180	104	277	138	6,299
UPVC											
UPVC pipe	m	186	43,710	20%	8742	2623	6884	328	874	437	19,888
Set of Connection parts; bends flanges, reducers, T-pieces											
Elbows	pc	140	3,780	20%	756	227	595	28	76	38	1,720
Reduction	pc	98	1,568	20%	314	94	247	12	31	16	713
T-piece	pc	104	3,224	20%	645	193	508	24	64	32	1,467
Flanges	pc	112	2,128	20%	426	138	335	16	43	21	968
Fasteners	set	1	507	20%	101	30	80	4	10	5	231
Gaskets	set	1	507	20%	101	30	80	4	10	5	231
Ductile Iron											

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Grund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Ductile iron pipe	m	690	524,400	20%	104880	31464	82593	3933	10488	5244	238,602
Set of Connection parts; bends flanges, reducers, T-pieces:											
Elbows	pc	4	23,132	20%	4626	1388	3643	173	463	231	10,525
Flanges	pc	1	4,800	20%	960	288	756	36	96	48	2,184
Fasteners	set	1	250	20%	50	15	39	2	5	3	114
Gaskets	set	1	250	20%	50	15	39	2	5	3	114
Establishment of Contractor's camp and temporary infrastructure											
Containers	pcs	24	192,000	20%	38400	11520	30240	1440	3840	1920	87,360
Diesel Generator Unit, fully equipped	set	2	36,000	5%	1800	1890	4961	270	0	360	9,381
General equipment for Execution of Works at site											
Flatbed truck with HIAB type folding crane (Outreach 3.7m lifting capacity 10 tonne) fully equipped, incl. spare and wear parts	pcs	2	320,000	5%	16000	16800	44100	2400	6400	3200	88,900
JCB 3CX units with backhoe, fully equipped incl. spare and wearparts	pcs	3	360,000	5%	18000	0	0	2700	0	3600	24,300
Thrust boring machine for pipes up to 400mm, complete unit, fully equipped incl. spare and wearparts	pcs	2	220,000	5%	11000	0	0	1650	0	2200	14,850
Industrial floor mounted pillar drill with up to 35mm diameter, fully equipped incl. spare and wearparts	pcs	4	56,000	5%	2800	2940	7718	420	0	560	14,438
HDPE welding machine suitable for pipes up to 315 mm diameter complete with generator unit, fully equipped incl. spare and wearparts	pcs	2	16,000	5%	800	0	0	120	0	160	1,080
Pipe cutting machine unit for HDPE pipes up to 300mm, fully equipped including spare and wearparts	pcs	2	14,000	5%	700	0	0	105	0	140	945
60 kVA standby generator units, fully equipped incl. spare and wearparts	pcs	4	80,000	5%	4000	0	0	600	0	800	5,400
Tapping machine unit for steel, Ductile iron and HDPE up to 300mm, fully equipped incl. spare and wearparts	pcs	2	5,600	5%	280	0	0	42	0	56	378

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Steel bending machine for reinforcement, complete unit, fully equipped incl. spare and wearparts	set	2	90,000	5%	4500		0	675	0	900	6,075
Demobilization of Contractor's personal, plants and equipments										0	
Specific Tools for demolition and dismantling	LS	1	45,000	5%	2250	2363	6202	338	900	450	12,502
Site Laboratory										0	
Hydraulic powered 2000 kN concrete cube crushing machine	pcs	1	60,000	5%	3000	0	0	450	1200	600	5,250
Full set of metric fine and coarse aggregate sieves complete with a matching electric vibrator	pcs	1	1,500	5%	75	79	207	11	30	15	417
Concrete thermometers	pcs	3	180	5%	9	9	25	1	4	2	50
Balance weighing up to 7kg and accurate to 0.01g, complete with a set of weights	pcs	1	6,000	5%	300	315	827	45	120	60	1,667
Scales weighing up to 220kg and accurate to 1g to complete with a set of weights	pcs	1	7,000	5%	350	368	965	53	140	70	1,945
Apparatus (with consumables and spares) for the measurement of the moisture content of aggregates	pcs	1	2,500	5%	125	131	345	19	50	25	695
Slump cones with tampers	pcs	2	1,600	5%	80	84	221	12	32	16	445
Compaction factor apparatus to BS1881	pcs	1	800	5%	40	42	110	6	16	8	222
Reinforcement cover meter	pcs	1	2,500	5%	125	131	345	19	50	25	695
BS1377 heavy compaction test equipment	pcs	1	600	5%	30	32	83	5	12	6	167
Apparatus for sand-replacement method of field density determination	pcs	1	800	5%	40	42	110	6	16	8	222
Liquid limit device and tools to BS1377, complete set, fully equipped	pcs	1	800	5%	40	42	110	6	16	8	222
CSR dual purpose, field and laboratory apparatus complete with dial gauges, proving ring and vehicle mounting bracket	pcs	1	1,200	5%	60	63	165	9	24	12	333
Schmidt hammer (digital)	pcs	1	800	5%	40	42	110	6	16	8	222
Set of 36, cast steel, 150mm concrete cube moulds with base plates and 2 tampers	pcs	1	600	20%	120	36	95	5	12	6	273
One set of sieves for sieve analysis of aggregate and sand	pcs	1	400	20%	80	24	63	3	8	4	162
Report forms, etc. as directed	pcs	1	200	5%	10	11	28	2	4	2	56

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhili/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Concrete cube curing tanks	pcs	1	200	5%	10	11	28	2	4	2	56
Shelved cupboards and aluminium trays 200mm x 50mm deep	pcs	1	600	5%	30	32	83	5	12	6	167
Equipment for Facilities: Tables, chairs, worktops, shovels, brushes, water and drainage, etc.											
Potable water and drainage equipment	set	4	920	5%	46	48	127	7	18	9	256
Digital tachometer	pcs	1	500	5%	25	26	69	4	10	5	139
Vibration meter	pcs	1	16,000	5%	800	840	2205	120	320	150	4,445
Earth resistance megger	pcs	1	2,500	5%	125	131	345	19	50	25	695
Facilities: Equipment for Engineer's and Employer's staff											
Vehicles and Other Equipment											
Dredger complete unit with all ancillaries. fully equipped	LS	1	1,500,000	5%	75000	79750	206719	11250	30000	15000	416,719
Mechanical Equipment & Installation											
RIVER WATER INTAKE											
Mechanical Equipment											
Bar Screen / vertical installation / manually operated	set	2	191,687	5%	9584	10084	26417	1438	0	1917	49,419
Fine screen / motorized	set	2	480,465	5%	24023	25224	66214	3603	0	4805	122,870
Sluice gate-1-2 / Inlet Coarse Screen	pc	2	38,957	5%	1948	2045	5369	292	0	390	10,044
Sluice gate-3-4 / Inlet-Fine Screen channel	pc	2	38,957	5%	1948	2045	5369	292	0	390	10,044
Sluice gate-5-6 / Outlet-Fine Screen channel	pc	2	38,957	5%	1948	2045	5369	292	0	390	10,044
Screenings discharge - conveyor / horizontal	pc	1	58,435	5%	2922	3068	8053	438	0	584	15,065
Drainage pump / Screen channel-1-2	set	2	4,847	5%	242	254	668	36	0	48	1,250
Flushing pump / Screen channels	set	2	12,213	5%	611	641	1683	92	0	122	3,149
Sample water pump - clear water tank	set	1	4,848	5%	242	255	668	36	0	48	1,250
Valves											
Gate valves flushing connection	set	2	584	10%	58	32	84	4	0	6	185
Non-return valves	set	2	1,359	10%	136	75	196	10	0	14	431
Butterfly valves	set	2	2,717	10%	272	149	392	20	0	27	861
Pipeworks, incl. bends, reducing, couplings, flanges											
Set of pipes & fittings - flushing system	set	1	8,724	20%	1745	523	1374	65	174	87	3,969
Set of pipes & fittings - drainage	set	1	5,234	20%	1047	314	824	39	105	52	2,381

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Miscellaneous											
Screenings Container	pc	2	6,979	20%	1396	419	1099	52	0	0	
Lifting device for submersible pumps	set	1	3,104	5%	155	163	428	23	0	70	3,036
Quever for Lifting device - Drainage pumps	pc	2	6,208	5%	310	326	858	47	0	31	800
Quever for Lifting device - Flushing pumps	pc	1	1,843	5%	92	97	254	14	0	62	1,501
RIVER WATER PUMPING STATION											
Mechanical Equipment											
River water lift pump	pc	3	757,616	5%	37881	39775	104409	5682	0	7576	195,323
Surge Protection unit, incl. mounting devices and supports, fully equipped	set	1	406,718	5%	20336	21353	56051	3050	0	4067	104,857
Valves											
Check valve - discharge side - River Water Lift Pumps	pc	3	170,661	10%	17066	9386	24639	1280	0	1707	54,078
Butterfly valve / motorised-discharge side-River Water Lift Pumps	pc	3	77,922	10%	7792	4286	11250	584	0	779	24,692
Air release valve - discharge side - River Water Lift Pumps	pc	3	4,369	10%	437	240	631	33	0	44	1,384
Gate valve - air release - River Water Lift Pumps	pc	3	875	10%	88	48	126	7	0	9	277
Ball valve - pressure indicator / transmitter - River Water Lift Pumps	pc	6	1,753	10%	175	96	253	13	0	18	555
Pipeworks, incl. bends, reducing, couplings, flanges											
see summarysheet of IMPORTED goods for Piping											
Miscellaneous											
Overhead traveling crane	set	1	43,707	5%	2185	0	0	328	0	437	3,950
Pipe coupling / Raw water lifting pumps - discharge side	set	3	25,584	5%	1279	1343	3526	192	0	256	6,596
Dismantling joint / River Water Lift Pumps - discharge side	set	3	12,211	5%	611	641	1683	92	0	122	3,148
Ventilation equipment	set	6	9,889	5%	494	519	1363	74	0	99	2,550
IN-PLANT INTERCONNECTING PIPING											
Piping material & fittings											
Valves											
Butterfly valve / manually - Maintenance	pc	2	133,732	10%	13373	7355	19308	1003	0	1337	42,376

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhit/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Butterfly valve / manually - Maintenance - Surge protection.	pc	1	9,110	10%	911	501	1315	68	0	91	2,887
Butterfly valve / manually - Maintenance	pc	2	72,488	10%	7249	3987	10465	544	0	725	22,970
Gate valve - Transmission main - Drain	pc	5	5,337	10%	534	294	771	40	0	53	1,691
Pressure Relief valve - Transmission main	pc	1	20,547	10%	2055	1130	2966	154	0	205	6,511
Air release valve - Transmission main	pc	1	2,135	10%	214	117	308	16	0	21	677
Gate valve - Transmission main	pc	1	1,454	10%	145	80	210	11	0	15	461
Ball valve - Sampling	pc	1	293	10%	29	16	42	2	0	3	93
Miscellaneous											
Dismantling joint / Pressure Header	pc	2	47,877	5%	2394	2514	6598	359	0	479	12,343
Dismantling joint / Pressure Header	pc	1	9,403	5%	470	494	1296	71	0	94	2,424
Dismantling joint / Pressure Header	pc	2	37,603	5%	1880	1974	5182	282	0	376	9,695
Dismantling joint / Pressure Header	pc	1	5,137	5%	257	270	703	39	0	51	1,324
Electrical Equipment & Installation											
Low voltage distribution board including low voltage incoming switchgears and distribution feeders											
Low voltage panels	set	13	322,211	5%	16111	16916	44405	2417	0	3222	93,070
Cable double floor construction elements, modular, for MCC	LS	1	30,239	5%	1512	1588	4167	227	0	302	7,796
Frequency Converter Switchgear	set	3	234,987	5%	11749	12337	32384	1762	0	2350	60,583
Power factor compensation unit	set	1	2,417	5%	121	127	333	18	0	24	623
Local control panels, incl. mounting devices and supports	set	1	19,126	5%	956	1004	2636	143	0	191	4,931
Instrumentation fully equipped, incl. mounting devices, supports, holders, clamps, weather proofing, sensor cables, calibration tools											
Level Sensor + Transmitter / level upstream screens	pc	2.00	7,850	5%	393	412	1082	59	0	79	2,024
Level Sensor + Transmitter / level downstream screens	pc	2.00	7,850	5%	393	412	1082	59	0	79	2,024
Analytic instrument / PH measurement	pc	1.00	5,856	5%	293	307	807	44	0	59	1,510
Analytic instrument / turbidity measurement	pc	1.00	7,741	5%	387	406	1067	58	0	77	1,996
Sampler / sampler.	pc	1.00	11,281	5%	564	592	1555	85	0	113	2,908

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhii/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Analytic instrument / conductivity measurement	pc	1.00	7,710	5%	386	405	1063	58	0	77	1,988
Level Indicator / level wet chamber intake	pc	1.00	3,925	5%	196	206	541	29	0	39	1,012
Pressure gauge / pressure side pumps	pc	3.00	4,866	5%	243	255	671	36	0	49	1,255
Pressure Indicator + Transmitter, pumps / pressure side pumps	pc	3.00	6,025	5%	301	316	830	45	0	60	1,553
Pressure Indicator + Transmitter, common header / common header pumps	pc	1.00	2,008	5%	100	105	277	15	0	20	518
Flow measurement unit / raw water flow	pc	1.00	50,988	5%	2,549	2,677	7,027	382	0	510	13,145
Building services - low voltage electrical installation material											
Lighting	LS	1	45,514	20%	9103	2731	7168	341	0	455	19,799
Power Stations (Power outlets)	set	4	3,448	5%	172	181	475	26	0	34	888
Fire detection equipment	set	1	8,616	5%	431	452	1,187	65	0	86	2,221
CO2 Fire Extinguisher	set	6	2,378	5%	119	125	328	18	0	24	513
VOIP Phone System	set	2	689	5%	34	36	95	5	0	7	178
Switches, Sockets	pcs	50	600	20%	120	36	95	5	0	6	261
CCTV system	set	1	3,191	5%	160	168	440	24	0	32	923
Diesel generator incl. automatic control, starter, connections, hut/cover, fully equipped	set	1	34,486	5%	1,724	1,811	4,753	259	0	345	8,891
Grounding Installation with Steel Strip and clamps	set	1	19,030	20%	3,806	1,142	2,997	143	0	190	8,278
Lightning Protection System	set	1	13,912	20%	2,782	835	2,191	104	0	139	6,052
Cables, including cable glands, cable shoes, junction boxes											
LV Cables for electrical installation	m	1,000	1,770	20%	354	106	279	13	0	18	770
Cable glands, cable shoes	LS	1	30,000	20%	6,000	1,800	4,725	225	0	300	13,050
Junction boxes	LS	1	15,000	10%	1,500	825	2,166	113	0	150	4,753
Insulation, cable tape, cable covers	LS	1	139,088	20%	27,818	8,345	21,906	1,043	0	1,391	60,503
Cable trays and supports	LS	1	37,868	20%	7,574	2,272	5,964	284	0	379	16,473
Civil Works, Pipe Laying											
Ductile iron pipe incl. transport, installation, washing, disinfection and testing: DN 1200, C25 Raw water Pipeline.											

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Pipe supports, mounting devices and fastening parts	LS	1	30,000	20%	6000	1800	4725	225	600	360	13,650
Washout Valve Chamber Assembly complete with fitting supply, transport, installation DN 1200											
Washout Chamber Assembly complete with fitting supply DN 1200	set	1	55,003	20%	11001	3300	8663	413	0	550	23,926
Washout Chamber valves, inc. mounting devices and supports	LS	1	5,400	10%	540	297	780	41	0	54	1,711
Air Valve Chamber Assembly complete with fitting supply											
Air Valve Assembly complete with fitting supply	set	1	22,820	10%	2282	1255	3295	171	0	228	7,231
Washout Chamber valves, inc. mounting devices and supports	LS	1	1,800	10%	180	99	260	14	0	18	570
River and Road Crossing supply, transport and installation incl pipe, elbows, air release valve and all mounting support and mounting equipment											
gate valve	pc	2	1,600	10%	160	88	231	12	0	16	507
air valve	pc	2	2,000	10%	200	110	289	15	0	20	634
Pipe supports, mounting devices and fastening parts	LS	1	3,700	20%	740	222	583	28	0	37	1,610
Civil Works											
Operator's building equipment and service facilities											
Miscellaneous equipment and devices											
Air conditioner unit (separate wall mount type)	pc	14	5,600	20%	1120	336	882	42	0	56	2,436
Workshop equipment											
Tools - set of manual tools for maintenance	set	12	6,000	5%	300	315	827	45	0	60	1,547
Stand Drilling Machine	set	2	700	5%	35	0	0	5	0	7	47
Welding machine	set	2	1,200	5%	60	0	0	9	0	12	31
Lifting device	set	2	600	5%	30	0	0	5	0	6	41
Miscellaneous small parts for workshop (bolts, screws, nails etc)	LS	1	5,000	5%	250	263	689	38	0	50	1,289
Miscellaneous Workshop equipment and manual tools	LS	1	15,000	10%	1500	825	2166	113	0	150	4,753

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	GIF (EURO)	I/D Rate	Imp. Duty	Nihil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Gate automatic	set	1	8,000	20%	1600	480	1260	60	160	80	3,640
Mechanical Equipment & Installation											
DISTRIBUTION CHAMBER											
Mechanical Equipment:											
Adjustable overflow weir for distribution to Phases	pc	2	27,715	20%	5543	1663	4365	208	0	277	12,056
Valves											
Gate valve - Drain	pc	3	2,894	10%	289	159	418	22	0	29	917
Miscellaneous											
Dismantling joint / Flowmeter	pc	2	5,485	10%	549	302	792	41	0	55	1,738
AERATION CASCADE											
Valves											
Gate valve - Drain	pc	2	1,929	10%	193	106	278	14	0	19	611
Miscellaneous											
Frame for Stop log - cascade	pc	6	1,927	20%	385	116	304	14	39	19	877
Frame for Stop log - overflows	pc	2	3,855	20%	771	231	607	29	77	39	1,754
Stop log - Cascade	pc	3	2,791	20%	558	167	440	21	56	28	1,270
Stop log - Overflows	pc	2	5,583	20%	1117	335	879	42	112	56	2,540
Overflow weir plates - cascade	set	1	12,989	20%	2598	779	2046	97	260	130	5,910
PRESEDIMENTATION LAMELLA CLARIFIER											
Mechanical Equipment											
Pre sedimentation tank - inlet baffle plates	set	2	24,635	20%	4927	1478	3880	185	0	246	10,716
Sludge scraper - Clarifier - Chain type scraper	pc	2	120,263	20%	24053	7216	18941	902	0	1203	52,314
Effluent penstock- Clarifier	pc	3	41,572	20%	8314	2494	6548	312	0	416	18,084
Lamella plates	LS	1	444,300	20%	88960	26688	70056	3336	0	4443	193,488
Supporting structure for Lamella	LS	1	100,000	20%	20000	6000	15750	750	0	1000	43,500
Y-notch Weirs	set	12	178,972	20%	35794	10738	28188	1342	0	1790	77,853
Sample water pump - Raw water inlet	pc	1	6,447	20%	1289	387	1015	48	0	64	2,804
Valves											
Knife Gate valve / motorised - sampling both Lines	pc	2	10,202	10%	1020	561	1473	77	0	102	3,233
Knife Gate valve / motorised - sludge discharge - Clarifier	pc	6	30,606	10%	3061	1683	4419	230	0	306	9,698

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

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Knife Gate valve / manual - sludge discharge - Clarifier	pc	6	5,794	10%	579		837	43	0	58	1,836
Ball Valve	pc	4	198	10%	20		29	1	0	2	63
Pipeworks, incl. bends, reducing, couplings, flanges											
SLUDGE PUMPING STATION											
Mechanical Equipment											
Sludge Feeding pump to the River	set	6	62,839	5%	3132		8632	470	0	626	16,149
Valves											
Knife Gate valve / manual - suction side	pc	3	3,175	10%	318		458	24	0	32	1,006
Knife Gate valve / manual - discharge side	pc	3	2,891	10%	289		417	22	0	29	916
Non return valve	pc	3	2,319	10%	232		335	17	0	23	735
Ball valve - flushing connection - Sludge discharge pumps	pc	6	578	10%	58		83	4	0	6	183
Ball valve - pressure indicator - Sludge discharge pumps	pc	3	289	10%	29		42	2	0	3	92
Flushing connection / coupling - Sludge discharge pumps	pc	6	3,464	20%	693		546	26	0	35	1,507
Pipeworks, incl. bends, reducing, couplings, flanges											
FLASH MIXING CHAMBERS											
Mechanical Equipment											
Vertical pendular Mixer - Flash Mixing Tanks	pc	2	23,861	20%	4772		3758	179	0	239	10,380
Penstock / 4-side sealed / motorised / Outlet - Flash mixing chambers	set	2	27,715	20%	5543		4365	208	0	277	12,056
Valves											
Gate valve / manually	pc	2	1,931	10%	193		279	14	0	15	612
Ball valve	pc	4	1,132	10%	113		163	8	0	11	359
Pipeworks, incl. bends, reducing, couplings, flanges											
FLOCCULATION TANKS											
Mechanical Equipment											
Vertical pendular agitator, big type; including mounting supports, hooks; fully equipped	pc	8	104,700	20%	20940		16490	785	0	1047	45,545
Vertical pendular agitator, medium type; including mounting supports, hooks; fully equipped	pc	8	93,914	20%	18783		14791	704	0	939	40,853



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Valves											
Knife Gate valve / manual - drain	pc	4	4,234	10%	423	233	611	32	0	42	1,342
Miscellaneous											
Wire plate - inlet - Flocculation tanks	set	8	10,032	5%	502	527	1383	75	0	100	2,586
Penstock / Inlet - Flocculation tanks	set	8	55,430	5%	2772	2910	7639	416	0	554	14,291
LAMELLA CLARIFIERS & SEDIMENTATION TANKS											
Mechanical Equipment											
Sludge scraper unit - Central driven	set	4	220,512	5%	11026	11577	30389	1654	0	2205	56,851
Steel bridge construction for Sludge scraper	set	4	113,539	5%	5677	5961	15547	852	0	1135	29,272
Effluent channel with V-notched weir / double sided	set	4	130,457	5%	6523	6849	17979	978	0	1305	33,333
Lamella plates	LS	1	492,550	5%	24,628	25,859	67880	3694	0	4975	125,388
Supporting structure for Lamella plates	LS	1	190,000	5%	9500	9975	26184	1425	0	1900	48,984
Drainage pumps / Lamella clarifier pipe galerie	set	2	6,735	5%	337	354	928	51	0	67	1,736
Sample water pump - Lamella Clarifier - effluent	set	1	6,447	5%	322	338	888	48	0	64	1,662
Valves											
Knife Gate valve / motorised - sludge discharge - Clarifier	pc	4	20,401	10%	2040	1122	2945	153	0	204	6,465
Knife Gate valve / manual - sludge discharge - Clarifier	pc	4	4,619	10%	462	254	667	35	0	46	1,464
Knife Gate valve / manual - outlet - Drainage pumps	pc	2	1,928	10%	193	106	278	14	0	19	611
Non return valve - outlet - Drainage pumps	pc	2	1,738	10%	174	96	251	13	0	17	551
Ball valve - flushing - sludge discharge - Clarifier	pc	4	385	10%	39	21	56	3	0	4	122
Ball valve	pc	6	578	10%	58	32	83	4	0	6	183
Flushing connection / coupling - Sludge discharge - Clarifier	pc	4	2,309	10%	231	127	333	17	0	23	732
Pipeworks, incl. bends, reducing, couplings, flanges											
Miscellaneous											
Frame for Stop log - Clarifier outlet - 3 side seating	pc	1	1,928	10%	193	106	278	14	0	19	611
Stop log - Clarifier outlet - 3 side seating	pc	1	2,791	10%	279	154	403	21	0	28	884

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Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhiti/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Frame for Stop log - Clarifier effluent channel - outlet	pc	16	15,421	10%	1542	848	2226	116	0	154	4,887
Stop log - Clarifier effluent channel - outlet - 3 side sealing	pc	4	5,783	10%	578	318	835	43	0	58	1,832
Recirculation pumps	pc	4	52,000	5%	2600	2730	7166	390	0	520	13,406
Gate valves	pc	8	4,264	10%	426	235	616	32	0	43	1,331
None return valve	pc	4	1,638	10%	164	90	236	12	0	16	519
Ball valve	pc	12	663	10%	66	36	96	5	0	7	210
Recirculation piping											
SLUDGE DISCHARGE PUMPING STATION											
Mechanical Equipment											
Sludge Feeding pumps for the Sludge Holding Tank	pc	3	62,639	5%	3132	3289	8632	470	0	626	16,149
Valves:											
Knife Gate valve / manual - suction side - Sludge discharge pump	pc	3	3,175	10%	318	175	458	24	0	32	1,006
Knife Gate valve / manual - discharge side - Sludge discharge pump	pc	3	2,891	10%	289	159	417	22	0	29	916
Knife Gate valve / manual - sludge discharge - Sludge storage tank	pc	1	966	10%	97	53	139	7	0	10	306
Non return valve - outlet - sludge discharge pump	pc	3	2,319	10%	232	128	335	17	0	23	735
Ball valve / manual - flush connections	pc	6	578	10%	58	32	83	4	0	6	183
Ball valve / manual - PIT connection	pc	3	289	10%	29	16	42	2	0	3	92
Hose coupling	pc	6	3,464	10%	346	191	500	26	0	35	1,098
Pipeworks, incl. bends, reducing, couplings, flanges											
Piping material - sludge line, incl. bends, reducing, couplings, flanges											
RAPID GRAVITY DUAL MEDIA FILTER											
Mechanical Equipment											
Penstock / motorised - inlet - Filter - 4-side sealing / electrically actuated	pc	12	41,572	5%	2079	2183	5729	312	0	416	10,718
Flap type backwash discharge valve - Filter - 4-side sealing / electrically actuated	pc	12	275,948	10%	27595	15177	39840	2070	0	2759	87,441
Multiple manhole - Filter	pc	12	84,293	10%	8429	4636	12170	632	0	843	26,710
Filter nozzles units	pc	39,100	89,763	10%	8976	4937	12960	673	0	893	28,444

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Drainage pump 1 - DMF pipe corridor	pc	2	6,735	5%	337	354	928	51	0	67	1,736
Sample water pump - Dual Media Filter - effluent	pc	1	6,447	5%	322	338	888	48	0	64	1,662
Penstock / manual - Treated water effluent 4-side sealing / manually actuated	pc	2	18,477	10%	1848	1016	2668	139	0	185	5,855
Penstock / 4-side sealing / motorised - connection - Back-wash water station	pc	1	25,305	10%	2531	1392	3653	190	0	253	8,019
Penstock / 4-side sealing / motorised - connection - Clear water tanks	pc	1	25,305	10%	2531	1392	3653	190	0	253	8,019
Valves											
Butterfly Valve / motorised - Control valve - Filter effluent	pc	12	105,060	10%	10506	5778	15168	788	0	1051	33,291
Butterfly valve / motorised - Air backwash inlet - Filter	pc	12	89,475	10%	8948	4921	12918	671	0	895	28,352
Butterfly valve / motorised - Water backwash inlet - Filter	pc	12	206,673	10%	20667	11367	29838	1550	0	2067	65,490
Gate valve / manual - Filter drain - Filter	pc	12	5,210	10%	521	287	752	39	0	52	1,651
Knife gate valve / manual - drain - DMF inlet channel	pc	2	2,117	10%	212	116	306	16	0	21	671
Knife Gate valve / manual - outlet - Drainage pumps	pc	2	1,160	10%	116	64	167	9	0	12	358
Non return valve - outlet - Drainage pumps	pc	2	773	10%	77	43	112	6	0	8	245
Ball valve / manual - sample for each filter	pc	12	591	10%	59	33	85	4	0	6	187
Ball valve - inlet - Sample water pump	pc	2	198	10%	20	11	29	1	0	2	63
Ball valve / manual - sample for fines	pc	2	197	10%	20	11	28	1	0	2	62
Air release valve - Back-wash water pipe	pc	1	1,928	10%	193	106	278	14	0	19	611
Gate valve- Back-wash water pipe	pc	1	386	10%	39	21	56	3	0	4	122
Ball valve / manually - Back-wash air pipe - Condensate discharge	pc	1	98	10%	10	5	14	1	0	1	31
Pipeworks, incl. bends, reducing, couplings, flanges											
Piping material - Dual Media Filter											
Miscellaneous											
Frame for Stop log - Filter inlet - 3-side sealing	pc	12	8,674	5%	434	455	1195	65	0	87	2,236
Stop log - Filter inlet - Stop log / 3-side sealing	pc	2	3,855	5%	193	202	531	29	0	39	994
Overflow weir plate - Filter tank inlet	pc	12	21,373	5%	1069	1122	2945	160	0	214	5,510

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhl/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Filter media - Filter sand - [Quartz sand / Silica sand]	to	782	139,707	5%	6985	7335	19253	1048	0	1397	36,018
Filter media - Hydroanthracite	m3	270	214,429	5%	10721	11258	29551	1608	0	2144	55,282
Overhead Traveling Crane / DMF pipe gallery	pc	1	37,330	5%	1867	1960	5145	280	0	373	9,624
Dismantling joint - Filter effluent	pc	12	12,706	5%	635	667	1751	95	0	127	3,276
Dismantling joint - Air backwash inlet	pc	12	12,706	5%	635	667	1751	95	0	127	3,276
Dismantling joint - Water backwash inlet	pc	12	39,852	5%	1993	2092	5492	299	0	399	10,274
Pipe coupling - back-wash water main	pc	1	13,857	20%	2771	831	2182	104	0	139	6,028
Pipe coupling - Filtered Water main to CCT	pc	2	73,506	20%	14701	4410	11577	551	0	735	31,975
Pipe coupling - Filtered Water main to BWT	pc	2	73,506	20%	14701	4410	11577	551	0	735	31,975
BACK-WASH WATER RECYCLING TANK											
Mechanical Equipment											
Back-wash Water Recirculation - Submersible / centrifugal pump	pc	3	32,335	5%	1617	1698	4456	243	0	323	8,336
Valves											
Knife gate valve / manual - discharge side Back-wash Water Recirculation	pc	3	5,783	10%	578	318	835	43	0	58	1,832
Non return valve - discharge side Back-wash water Recirculation	pc	3	4,910	10%	491	270	709	37	0	49	1,556
Pipeworks, incl. bends, reducing, couplings, flanges											
Miscellaneous											
Lifting device for submersible pumps	pc	1	3,081	5%	154	162	425	23	0	31	794
Quever for Lifting device	pc	1	676	5%	34	35	93	5	0	7	174
FILTER BACK-WASH STATION											
Mechanical Equipment											
Filter Back-wash Pump 1-3	pc	3	380,118	5%	19006	19956	52385	2851	0	3801	97,999
Air blower 1-3 - Filter air scouring	pc	3	105,930	20%	21186	6356	16684	794	0	1059	46,080
Booster pump 1-3 for Fire fighting	set	3	63,353	5%	3168	3326	8731	475	0	634	16,333
Booster pumping station for in-plant service water	set	3	63,353	5%	3168	3326	8731	475	0	634	16,333
Chlorination Booster pump	pc	2	8,276	5%	414	434	1141	62	0	83	2,134
Drainage pump / Back-wash pump station	pc	2	6,735	5%	337	354	928	51	0	67	1,736
Valves											
Butterfly Valve / motorised - suction side - Filter Back-wash Pump	pc	3	164,809	10%	16481	9064	23794	1236	0	1648	52,224

TAX-ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhii/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Check valve - discharge side - Filter Back-wash Pump	pc	3	135,951	10%	13595	7477	19628	1020	0	1360	43,079
Butterfly Valve / motorised - discharge side - Filter Back-wash Pump	pc	3	86,016	10%	8602	4731	12419	645	0	860	27,256
Butterfly Valve / motorised - by-pass pipe - Filter back-wash - rinsing	pc	1	11,642	10%	1164	640	1681	87	0	116	3,689
Butterfly Valve / motorised - connection - Dual Media Filter - Phase-1	pc	1	54,936	10%	5494	3021	7931	412	0	549	17,408
Butterfly Valve / motorised - discharge side - Air blower 1-3	pc	3	32,618	10%	3262	1794	4709	245	0	326	10,336
Butterfly Valve / motorised - connection - Dual Media Filter - Phase-1	pc	1	14,912	10%	1491	820	2153	112	0	149	4,725
Solenoid valve / Air header - pressure release	pc	1	482	10%	48	27	70	4	0	5	153
Knife Gate valve / manual - outlet - Drainage pump 1-2	pc	2	1,160	10%	116	64	167	9	0	12	368
Non return valve - outlet - Drainage pump 1-2	pc	2	776	10%	78	43	112	6	0	8	246
Valves for Fire fighting booster station	set	1	27,615	10%	2762	1519	3987	207	0	276	8,751
Valves for In-plant service water booster station	set	1	18,377	10%	1838	1011	2653	138	0	184	5,823
Valves for Chlorination water booster pumps	set	1	13,857	10%	1386	762	2001	104	0	139	4,391
Pipeworks, incl. bends, reducing, couplings, flanges											
Miscellaneous											
Overhead Traveling Crane / Back-wash water Pump house	set	1	57,727	5%	2886	0	0	433	0	577	5,397
Dismantling joint / Valves suction side	pc	3	24,250	10%	2425	1334	3501	182	0	243	7,684
Dismantling joint / Valves discharge side	pc	1	5,485	10%	549	302	792	41	0	55	1,738
Dismantling joint / Valves	pc	3	16,454	10%	1645	905	2376	123	0	165	5,214
Dismantling joint / Valves	pc	1	1,543	10%	154	85	223	12	0	15	489
Dismantling joint / Valves	pc	1	2,118	10%	212	116	306	16	0	21	671
Dismantling joint / Valves	pc	3	4,047	10%	405	223	584	30	0	40	1,282
Pipe coupling - back-wash water main	pc	2	27,715	10%	2772	1524	4001	208	0	277	8,782
Compensator - Suction side - Filter Back-wash Pump	pc	3	19,340	5%	967	1015	2665	145	0	193	4,986
Compensator - Discharge side - Filter Back-wash Pump	pc	3	12,412	5%	621	652	1711	93	0	124	3,200
Ventilation equipment	pc	3	6,642	20%	1328	399	1046	50	0	66	2,889

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
CLEAR WATER RESERVOIRS											
Mechanical Equipment											
Pensstock / motorised - inlet - clear water tank	pc	2	55,230	20%	11046	3314	8699	414	0	552	34,025
Sample water pump - clear water tank	pc	2	12,894	20%	2579	774	2031	97	0	129	5,609
Pensstock / manual	pc	1	28,700	20%	5740	1722	4520	215	0	387	12,485
Valves											
Butterfly Valve / motorised / with spindle extension	pc	2	200,693	10%	20069	11038	28975	1505	0	2007	53,595
Gate valve / manually - drain - Clear water tank	pc	2	1,931	10%	193	106	279	14	0	19	612
Set of valves sampling	set	1	3,945	10%	395	217	570	30	0	39	1,350
Pipeworks, incl. bends, reducing, couplings, flanges											
Miscellaneous											
Dismantling joint / Valves	pc	2	55,230	10%	5523	3038	7974	414	0	552	17,501
Pipe coupling - Clear water mains to PS	pc	2	73,506	20%	14701	4410	11577	551	0	735	31,975
CHEMICAL DOSING & STORAGE - ALU DOSING											
Mechanical Equipment											
Vertical pendular mixer - ALU preparation	pc	3	25,405	5%	1270	1334	3501	191	0	254	6,550
ALU dosing - Dosing pump unit, fully equipped	pc	3	82,550	5%	4128	4334	11376	619	0	826	21,282
Valves											
Set of valves	set	1	45,891	10%	4589	2524	6626	344	0	459	14,542
Pipeworks, incl. bends, reducing, couplings, flanges											
Miscellaneous											
Overhead Traveling Crane / Chemical building	pc	1	45,893	5%	2295	0	0	344	0	459	3,098
Safety shower	pc	1	3,464	20%	693	208	546	26	0	35	1,507
Ventilation equipment	pc	4	8,855	20%	1771	531	1395	66	0	89	3,852
CHEMICAL DOSING & STORAGE - POLYMER DOSING											
Mechanical Equipment											
Polymer dosing - Polymer preparation- & dosing unit	pc	2	80,817	5%	4041	4243	11138	606	0	808	20,836
Polymer dosing - Dosing pump	pc	2	6,354	5%	318	334	876	48	0	64	1,538
Polymer dosing - Post dilution device	pc	2	12,123	5%	606	636	1671	91	0	121	3,125

TAX ASSESSMENT FOR SEKONDI-TAKORADI-WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Valves					0						
Set of valves	set	1	13,857	10%	1,386	767	2,001	104	0	139	4,391
Pipeworks, incl. bends, reducing, couplings, flanges.											
CHEMICAL DOSING & STORAGE - KMnO4											
Mechanical Equipment											
Mixer - KMnO4 preparation	pc	2	8,664	5%	433	455	1,194	65	0	87	2,234
KMnO4 dosing pump	pc	3	24,253	5%	1,213	1,273	3,342	182	0	243	6,753
Valves											
Set of valves	set	1	12,126	10%	1,213	667	1,751	91	0	121	3,842
Pipeworks, incl. bends, reducing, couplings, flanges											
CHEMICAL DOSING & STORAGE - CHLORINE											
M&E Equipment											
Chlorine ton container											
Chlorine ton container	set	10	5,785	20%	1,157	347	911	43	0	58	2,516
Equipment from Chlorine containers to main pipe											
Ton container scale	set	2	13,283	5%	664	697	1,831	100	0	133	3,425
Storage Trunnions with base plate	set	4	5,393	20%	1,079	324	849	40	0	54	2,346
Emergency shut-off system	set	3	28,289	20%	5,658	1,697	4,456	212	0	283	12,306
Auxiliary valve adapter, yoke clamp	set	6	2,322	20%	464	139	366	17	0	23	1,010
Copper tube	set	6	1,748	20%	350	105	275	13	0	17	760
Copper valve	set	6	1,159	10%	116	64	167	9	0	12	367
Ball valve	set	9	2,630	10%	263	145	380	20	0	26	833
Pressure Switch	set	2	4,045	10%	405	222	584	30	0	40	1,282
Expansion tank with pressure gauge and rupture disc	set	3	13,283	10%	1,328	731	1,918	100	0	133	4,209
Electric actuated ball valve	set	2	8,855	10%	886	487	1,278	66	0	89	2,806
Control panel with autor/manual	set	1	48,105	10%	4,811	2,646	6,945	351	0	481	15,243
Evaporator and Accessories											
Evaporator	set	0									
Pressure relief valve with pressure gauge and rupture disc	set	2	10,587	10%	1,059	582	1,528	79	0	106	3,355
Pressure reducing valve / manually	set	2	6,159	10%	616	339	889	46	0	62	1,952

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Gas filter	set	2	10,989	10%	1097	603	1584	82	0	110	3,476
Ball valve	set	6	4,045	10%	405	222	584	30	0	40	1,282
Water inlet, discharge pipe, valve for vapor	set	2	9,621	20%	1924	577	1515	72	0	95	4,185
Vacuum regulator and accessories											
Vacuum regulator with pressure gauge and liquid trap	set	2	24,635	10%	2464	1355	3557	185	0	246	7,306
Vacuum valve	set	2	5,393	10%	539	297	779	40	0	54	1,709
Chlorinator and accessories											
Vacuum Gas Feed Chlorinator	set	2	25,401	10%	2540	1397	3667	191	508	254	9,157
Vacuum valve	set	2	2,697	10%	270	148	389	20	54	27	909
Ejector											
Ejector for Chlorine solution	set	2	5,392	10%	539	297	778	40	108	54	1,816
Safety equipment											
Gas leak detector	set	1	18,282	5%	914	960	2519	137	366	183	5,079
Gas Mask	set	1	2,214	5%	111	0	0	17	44	22	194
Self control breathing apparatus with gas mask	set	1	13,183	5%	659	692	1817	99	254	132	3,662
Chlorine gas scrubber unit, fully equipped	set	1	138,252	5%	6913	7258	19053	1037	2765	1383	33,408
Nitrogen rinsing device incl supports and mounting devices	set	1	34,156	5%	1708	1793	4707	256	683	342	9,489
Safety shower	set	1	5,485	20%	1097	329	864	41	110	55	2,486
Valves											
Set of valves	set	1	14,433	10%	1443	794	2084	108	0	144	4,573
Pipeworks, incl. bends, reducing, couplings, flanges											
Miscellaneous											
Overhead Traveling Crane	set	1	50,894	5%	2545	0	0	382	0	509	3,435
Ventilation equipment	set	1	11,741	20%	2348	704	1843	88	0	117	5,107
Backup hypochlorite dosing package unit, fully equipped	set	1	192,321	5%	9616	10097	26504	1442	0	1923	49,583
CHEMICAL DOSING & STORAGE - LIME DOSING											
Mechanical Equipment											
Vertical pendular mixer - LIME milk preparation	pc	2	33,677	5%	1684	1768	4641	253	0	337	8,682
LIME milk transfer pumps	pc	2	12,318	5%	616	647	1698	92	0	123	3,176

TAX-ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	NHII/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Lime water reactor unit, fully equipped	LS	2	180,700	5%	9035	9487	24903	1355	0	1807	45,587
Vertical pendular mixer - LIME solution preparation	pc	1	8,373	5%	419	440	1154	63	0	84	2,159
LIME dosing unit, fully equipped											
LIME dosing - Dosing pump unit, fully equipped	pc	4	33,346	5%	1667	1751	4595	250	0	333	8,597
Lime milk preparation tank unit, incl. mounting devices, fully equipped	pc	2	16,000	5%	800	840	2205	120	0	160	4,125
Lime water tank, incl. mounting supports, fully equipped	pc	1	8,000	5%	400	420	1103	50	0	80	2,063
Valves											
Set of valves	set	1	54,166	10%	5417	2979	7820	406	0	542	17,164
Pipeworks, incl. bends, reducing, couplings, flanges											
Miscellaneous											
Ventilation equipment	set	1	6,159	20%	1232	370	970	46	0	62	2,679
SLUDGE STORAGE TANK											
Mechanical Equipment											
Submersible mixer - Sludge tank	pc	1	8,178	20%	1636	491	1288	61	0	82	3,557
Sludge storage tank	pc	1	86,491	20%	17298	5189	13622	649	0	865	37,824
Sludge feed pump	pc	2	28,096	5%	1405	1475	3872	211	0	281	7,244
Valves											
Knife Gate valve / manual - suction side	pc	2	2,117	10%	212	116	306	16	0	21	671
Non return valve - discharge side	pc	2	2,117	10%	212	116	306	16	0	21	671
Knife Gate valve / manual - discharge side	pc	1	1,062	10%	106	50	153	8	0	11	337
Pipeworks, incl. bends, reducing, couplings, flanges											
Miscellaneous											
Lifting device	pc	1	3,371	5%	169	177	465	25	0	34	869
Overhead traveling crane	pc	1	21,167	5%	1058	1111	2917	159	0	212	5,457
Laboratory Equipment (according Employers Requirements)	LS	1	317,510	5%	15876	16669	43757	2381	0	3175	81,858
Air condition unit, incl. mounting devices, fully equipped	pcs	3	72,776	5%	3639	3821	10029	546	0	728	18,763
IN-PLANT INTERCONNECTING PIPING (outside buildings)											

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhii/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Piping materials & fittings, incl. bends, reducing, couplings, flanges											
Electrical Equipment Installation											
Low voltage distribution board including low voltage incoming switchgears and distribution feeders											
LV Voltage distribution board	LS	1	346,662	20%	69332	20800	54599	2600	0	3467	150,798
Switchgears	LS	1	195,000	20%	39000	11700	30713	1463	0	1950	84,825
Distribution feeders	LS	1	122,400	20%	24480	7344	19278	918	0	1224	53,244
Low voltage panel	LS	1	40,250	20%	8050	2415	6339	302	0	403	17,509
LV Rubber Matt	m	60	3,000	20%	600	180	473	23	0	30	1,305
Cable double floor constructin elements MCC	LS	1	12,000	20%	2400	720	1890	90	0	120	5,220
Power factor compensation unit	set	1	13,728	20%	2745	824	2162	103	0	137	5,972
Motor control center panels	set	1	243,936	20%	48787	14636	38420	1830	0	2439	106,112
UPS system at relevant connection points for 50kVA generator	set	1	68,640	5%	3432	3604	9439	515	0	686	17,696
Grounding Material with Galvanized Steel Strip	set	1	77,352	5%	3868	4061	10660	580	0	774	19,942
Lightning Protection System	set	1	60,192	20%	12038	3612	9480	451	0	602	26,184
Cable installation											
Low voltage cables	m	285,620	357,025	20%	71405	21422	56231	2678	0	3570	153,306
Signal cables	m	209,850	104,925	20%	20985	6296	16326	787	0	1049	45,642
Cable glands, cable shoes, junction boxes	LS	1	16,164	20%	3231	969	2544	121	0	162	7,027
Cable trays and supports	LS	1	213,576	20%	42715	12815	33638	1602	0	2136	92,906
Building services - low voltage electrical											
Firefighting Detection System	set	1	150,173	5%	7509	7884	20696	1126	0	1502	38,716
CO2 Fire Extinguisher	pc	16	443	5%	22	23	61	3	0	4	114
Warning lights	set	1	6,043	20%	1209	363	952	45	0	60	2,629
Warning Signs and Stickers	set	1	963	20%	193	58	152	7	0	10	419
Lighting	LS	1	128,187	20%	25637	7691	20189	961	0	1282	55,761
Power Stations (Power outlets)	set	30	963	20%	193	58	152	7	0	10	419
Splicing Boxes	set	10	5,000	20%	1000	300	783	38	0	50	2,175
Pigtails	set	200	5,500	20%	1100	330	866	41	0	55	2,393
VOIP Phone System	set	25	6,000	20%	1200	360	945	45	0	60	2,610
Switches, Sockets	pcs	350	4,200	20%	840	252	662	32	0	42	1,827
Local control panels, incl. mounting devices and supports	set	1	240,856	20%	48171	14451	37935	1806	0	2409	104,772

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhii/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Instrumentation, incl. mounting devices and supports, fully equipped										0	
Level switch / Cascade distribution	pc	1	513	20%	103	31	81	4	10	5	233
Level switch / Cascade	pc	1	513	20%	103	31	81	4	10	5	233
Flow measurement / Flowmeter phase 1	pc	2	19,090	20%	3818	1145	3007	143	382	191	8,686
Level measurement / for sludge level	pc	2	14,504	10%	1450	798	2094	109	290	145	4,886
Analytic instrument / pH at each presedimentation outlet	pc	2	12,142	10%	1214	668	1753	91	243	121	4,090
Analytic instrument / NTU each presedimentation outlet	pc	2	16,452	10%	1645	905	2375	123	329	165	5,542
Pressure indicator / transmitter / pressure sludge discharge	pc	3	6,246	10%	625	344	902	47	125	62	2,104
Level switch / flash mixer chamber level	pc	2	1,026	10%	103	56	148	8	21	10	346
Level switch / Drainage PS	pc	1	513	10%	51	28	74	4	10	5	173
Analytic instrument / PH measurement	pc	1	6,071	10%	607	334	877	46	121	61	2,045
Analytic instrument / Turbidity measurement	pc	1	8,025	10%	803	441	1159	60	161	80	2,703
Pressure indicator / transmitter / pressure sludge pumps discharge	pc	3	6,246	10%	625	344	902	47	125	62	2,104
Flow measurement / sludge common line	pc	1	5,728	10%	573	315	827	43	115	57	1,930
Ultrasonic type level meter / Filters level for each filter cell	pc	6	16,614	10%	1661	914	2399	125	332	166	5,597
Analytic instrument / Turbidity measurement	pc	2	10,050	10%	1005	533	1451	75	201	101	3,386
Point level switch, conductive / drainage	pc	1	513	20%	103	31	81	4	10	5	233
Point level switch, conductive / filter overflow	pc	1	513	20%	103	31	81	4	10	5	233
Point level switch, conductive / back wash water recirculation	pc	1	513	20%	103	31	81	4	10	5	233
Ultrasonic type level meter / back wash water recirculation	pc	1	3,069	20%	614	184	483	23	61	31	1,396
Diaphragm pressure gauge, stainless steel version / pressure backwash PS	pc	3	5,046	20%	1009	303	795	38	101	50	2,296
Pressure indicator / transmitter / pressure backwash PS	pc	3	6,246	20%	1249	375	984	47	125	62	2,842
Electromagnetic flow sensor unit / transmitter / flow backwash PS	pc	1	3,844	20%	769	231	605	29	77	38	1,749
Point level switch, conductive / drainage	pc	1	513	20%	103	31	81	4	10	5	233
Diaphragm pressure gauge, stainless steel version / service water PS	pc	1	1,682	5%	84	88	232	13	34	17	467

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Diaphragm pressure gauge, stainless steel version / service water PS	pc	1	3,844	5%	192	202	530	29	77	38	1,068
Diaphragm pressure gauge, stainless steel version / CI booster pumps	pc	2	3,364	5%	168	177	464	25	67	34	935
Diaphragm pressure gauge, stainless steel version / fire fighting PS	pc	1	1,682	5%	84	88	232	13	34	17	467
Point level switch, conductive / Backwash water reservoir level switch	pc	1	513	5%	26	27	71	4	10	5	143
Ultrasonic type level meter / Backwash water reservoir level measurement	pc	1	4,069	5%	203	214	561	31	81	41	1,130
Analytic instrument / residual chlorine	pc	2	8,604	5%	430	452	1186	55	172	86	2,390
Flow indication / Flow indication, sample water	pc	2	5,610	5%	281	295	773	42	112	56	1,559
Ultrasonic type level meter / level clear water tank.	pc	2	8,138	5%	407	427	1122	61	163	81	2,261
Point level switch, conductive / level clear water tank	pc	2	1,026	5%	51	54	141	8	21	10	285
Flow indication / flow indicator chlorine dosing	pc	1	2,805	5%	140	147	387	21	56	28	779
Point level switch, conductive / ALU tanks	pc	2	1,026	5%	51	54	141	8	21	10	285
Ultrasonic type level meter / ALU tanks	pc	2	6,138	5%	307	322	846	46	123	61	1,705
Diaphragm pressure gauge, stainless steel version / ALU pumps	pc	1	2,851	5%	143	150	393	21	57	29	792
Electromagnetic flow sensor / transmitter / ALU pumps	pc	2	5,702	5%	285	299	786	43	114	57	1,584
Electromagnetic flow sensor / transmitter / Polymer	pc	2	5,702	5%	285	299	786	43	114	57	1,584
Pressure indicator / transmitter / Polymer	pc	2	4,164	5%	208	219	574	31	83	42	1,157
Flow indication (no flow measurement) / Polymer	pc	2	5,610	5%	281	295	773	42	112	56	1,559
Point level switch, conductive / KMnO4 tanks	pc	1	513	5%	26	27	71	4	10	5	143
Ultrasonic type level meter / KMnO4 tanks	pc	1	3,069	5%	153	161	423	23	61	31	853
Diaphragm pressure gauge, stainless steel version / KMnO4 pumps	pc	2	3,364	5%	168	177	464	25	67	34	935
Electromagnetic flow sensor / transmitter / KMnO4 pumps	pc	1	2,851	5%	143	150	393	21	57	29	792
Level Sensor +Transmitter / Lime tank	pc	1	4,069	5%	203	214	561	31	81	41	1,130
Level switch / Lime tank	pc	1	513	20%	103	31	81	4	10	5	233
Point level switch, conductive / Lime tank	pc	3	1,539	5%	77	81	212	12	31	15	478

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of item	unit	Qty	CF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Pressure indicator / transmitter / Lime pumps	pc	3	6,246	5%	312	328	861	47	125	62	1,735
Electromagnetic flow sensor unit / transmitter / Lime pumps	pc	1	3,844	5%	192	202	530	29	0	38	991
CCTV system	set	1	68,640	5%	3432	3604	9459	515	0	686	17,696
Outdoor lighting	set	1	19,184	20%	3837	1151	3021	144	384	192	8,729
Mechanical Equipment & Installation											
HIGH LIFT PUMPING STATION											
Mechanical Equipment											
High Lift Water Pump 1-3	pc	3	847,251	5%	42363	44481	116762	6354	0	8473	218,432
Surge Protection unit, incl. mounting devices, fully equipped	set	1	455,512	5%	22776	23914	62775	3416	0	4555	117,437
Drainage pump / Treated Water Lift Pump house	pc	2	5,072	5%	254	266	699	38	0	51	1,308
Booster pumping station for in-plant drinking water supply	set	1	22,627	5%	1131	1188	3118	170	0	226	5,834
Sample water pump - Treated water - discharge	pc	1	4,878	5%	244	256	672	37	0	49	1,258
Valves											
Butterfly valve / motorised - suction side	pc	3	127,557	10%	12756	7016	18416	957	0	1276	40,420
Check valve - discharge side - Water Pump 1-3	pc	3	172,031	10%	17203	9462	24837	1290	0	1720	54,512
Butterfly valve / motorised - discharge side - Water Pump 1-3	pc	3	78,409	10%	7841	4312	11330	588	0	784	24,846
Butterfly valve / manually - connection suction header	pc	1	100,057	10%	10006	5503	14446	750	0	1001	31,706
Butterfly valve / manually - connection suction header	pc	1	71,191	10%	7119	3916	10278	534	0	712	22,559
Butterfly valve / manually - pressure header	pc	2	134,971	10%	13497	7423	19486	1012	0	1350	42,769
Butterfly valve / manually - maintenance - Flow meter	pc	1	56,563	10%	5656	3111	8166	424	0	566	17,933
Knife Gate valve / manual - outlet - Drainage pump	pc	2	781	10%	78	43	113	6	0	8	247
Non return valve - outlet - Drainage pump	pc	2	589	10%	59	32	85	4	0	6	187
Ball valve	pc	5	500	10%	50	28	72	4	0	5	158
Valves for Booster pumping station for in-plant drinking water supply	pc	1	5,169	10%	517	284	746	39	0	52	1,638
Ball valve - outlet - PI and PIT connection	pc	7	697	10%	70	38	101	5	0	7	221

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

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Ball valve - inlet - Sample water pump	pc	1	100	10%	10	6	14	1	0	1	32
Butterfly valve / manually - isolation of Drinking Water pumps	pc	1	2,342	10%	234	129	388	18	0	23	742
Pipeworks, incl. bends, reducing, couplings, flanges											
Piping - suction side	set	1									
Miscellaneous											
Overhead Traveling Crane / Treated Water Pump house	set	1	102,007	5%	5100	5355	14058	765	0	1020	26,299
Compensator - Suction side - Treated Water Pump	pc	3	14,633	5%	732	768	2017	110	0	146	3,773
Compensator - Discharge side - Treated Water Pump	pc	3	10,538	5%	527	553	1452	79	0	105	2,717
Dismantling joint / Treated Water Pumps - suction side	pc	3	24,871	5%	1244	1306	3428	187	0	249	6,412
Dismantling joint / Treated Water Pumps - discharge side	pc	3	16,975	5%	849	891	2339	127	0	170	4,376
Dismantling joint / Suction Header / connection	pc	1	25,844	5%	1292	1357	3562	194	0	258	6,663
Dismantling joint / Pressure Header / Treated water Transmission pipe	pc	2	12,485	5%	624	655	1721	94	0	125	3,219
Dismantling joint / Pressure Header / Phase connection	pc	2	26,723	5%	1336	1403	3683	200	0	267	6,890
Ventilation Equipment	pc	6	9,950	20%	1990	597	1567	75	0	100	4,328
Connection to TRANSMISSION PIPELINES FOR TREATED WATER											
Valves											
Butterfly valve / manually - connection surge pressure vessel	pc	1	15,798	10%	1580	859	2281	118	0	158	5,006
Pressure Relief valve - Transmission main	pc	1	20,676	10%	2068	1137	2985	155	0	207	6,552
Air release valve - Transmission main	pc	1	2,148	10%	215	118	310	16	0	21	681
Gate valve - Transmission main	pc	1	1,463	10%	146	80	211	11	0	15	464
Piping material & fittings											
Miscellaneous											
Dismantling joint - connection surge protection vessel	pc	1	5,658	10%	566	311	817	42	0	57	1,793
Electrical Equipment & Installation											

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of item	unit	Qty	GIF (EURO)	I/D Rate	Imp. Duty	Nhii/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Electrical Control equipment for Lift PS											
Frequency converter for high lift pumps	pc	3	844,500	5%	42225	44336	116383	6334	0	8445	217,723
Electr. Installation Materials											
LV Cables	m	180	225	20%	45	14	35	2	0	2	98
Signal and Control cables	m	150	75	20%	15	5	12	1	0	1	33
10KV Power Supply Cable											
10KV Cable	m	150	14,850	10%	1485	817	2144	111	0	149	4,706
Joints, caps, connectors	LS	1	1,606	10%	161	88	232	12	0	16	509
Instrumentation, incl. mounting equipment, hook ups, supports, screws, fully equipped											
Pressure indicator / transmitter / pressure clear water pumps	pc	3	2,724	5%	136	143	375	20	0	27	702
Diaphragm pressure gauge, stainless steel version / pressure clear water pumps	pc	3	2,202	5%	110	116	303	17	0	22	568
Pressure indicator / transmitter / pressure clear water PS	pc	1	908	5%	45	48	125	7	0	9	234
Electromagnetic flow sensor / transmitter / plant outlet flow	pc	1	12,614	5%	631	662	1738	95	0	126	3,252
Analytic instrument / PH measurement - instrument+transmitter	pc	1	2,648	5%	132	139	365	20	0	26	683
Analytic instrument / residual chlorine measurement - instrument+transmitter	pc	1	3,187	5%	159	167	439	24	0	32	822
Analytic instrument / NTU measurement - instrument+transmitter	pc	1	3,501	5%	175	184	482	26	0	35	903
Point level switch, conductive / drainage	pc	1	224	5%	11	12	31	2	0	2	58
Diaphragm pressure gauge, stainless steel version / pressure drinking water pumps	pc	1	734	5%	37	39	101	6	0	7	189
Water meter / water meter drinking water pumps	pc	1	210	5%	11	11	29	2	0	2	54
Telemetry and SCADA											
SCADA connection to River intake											
Optical cable fiber installation											
Cables	m	6,000	2,400	20%	480	144	378	18	0	24	1,044
Splice box	pcs	10	600	20%	120	36	95	5	0	6	261
Pig tails	pcs	30	86	20%	17	5	14	1	0	1	37

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PLC Switchgear Unit, fully equipped, including Monitor, FOC Switch and UPS system	set	1	52,064	20%	10413	3124	8200	390	0	521	22,548
Monitor, incl. cables	pc	1	1,400	20%	280	84	221	11	0	14	609
UPS System Unit	set	1	3,450	5%	173	181	475	26	0	35	889
Automation and SCADA for WTP Dabose											
PLC Switchgear with 17" Monitor incl FOC Switch and UPS											
PLC Switchgear Unit	set	2	328,928	20%	65786	19736	51806	2467	0	3289	143,084
Monitor	pcs	2	4,800	5%	240	252	662	36	0	48	1,238
FOC Switch	set	2	9,600	20%	1920	576	1512	72	0	96	4,176
UPS System Unit	set	2	18,000	5%	900	945	2481	135	0	180	4,641
DWTP Dabose SCADA equipment including UPS system											
UPS System SCADA	set	1	19,192	5%	960	1008	2645	144	0	192	4,948
PLC switchgear	set	1	35,984	5%	1799	1889	4959	270	0	360	9,277
SCADA Server Panel	set	2	23,990	5%	1200	1259	3306	180	0	240	6,185
SCADA Operating stations	set	2	4,798	5%	240	252	661	36	0	48	1,237
Laboratory PC, fully equipped	set	1	4,798	5%	240	252	661	36	0	48	1,237
Engineering Notebook fully equipped	set	3	21,590	5%	1080	1133	2975	162	0	216	5,566
SCADA and PLC software and licenses	set	1	189,112	5%	9456	9928	26062	1418	0	1891	48,755
Monitors Big Screen	pc	2	5,512	5%	326	342	897	49	0	65	1,679
Optical fiber cable network	set	1	33,792	5%	1690	1774	4657	253	0	338	8,712
Bulk power supply and electrical installation											
RIVER INTAKE POWER SUPPLY											
Transformer 10/0.4 KV including connectors											
Transformer 11/0.4 KV, fully equipped	set	1	98,000	5%	4900	0	0	735	0	980	6,615
Connectors, supports	set	1	17,667	5%	883	928	2435	133	0	177	4,555
10KV Cable from 10KV WTP substation to River Intake, including 10KV joints and connectors											
10KV Cable	m	1,000	100,000	10%	10000	5500	14438	750	0	1000	31,688
11KV Joints	set	18	30,420	10%	3042	1673	4392	228	0	304	9,639
10KV Cable end connectors	set	6	2,430	10%	243	134	351	18	0	24	770

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DABOASE DMTP POWER SUPPLY											
Line Disconnector Switch with fuse for pole for connection to 34.5KV line	set	1	18,832	10%	1883	1036	2719	141	0	188	5,967
33KV Cable from Line (border of supply) to 34.5KV Substation, including all connectors											
33KV Cable	m	908	81,434	10%	8143	4479	11757	611	0	814	25,804
33KV Cable end connectors	set	6	2,430	10%	243	134	351	18	0	24	770
34.5KV Electrical Substation including all connectors; fully equipped											
33KV Switchgear	set	4	247,280	10%	24728	13600	35701	1855	0	2473	78,357
Medium voltage cable Joints	set	18	16,899	10%	1690	929	2440	127	0	169	5,355
Medium Voltage Rubber Matt	m	11	6,885	10%	689	379	994	52	0	69	2,182
Uninterruptible Power Supply System	set	1	19,192	10%	1919	1056	2771	144	0	192	6,081
Safety Equipment for MV (MV gloves, MV helmet with shield, safety shoes, protective jacket, earthing set, arc fault protective sheath. 2 pcs each)	LS	1	8,596	10%	860	473	1241	64	0	86	2,724
Electrical tools and additional mounting devices regarding Substation	LS	1	51,300	10%	5130	2822	7406	385	0	513	16,256
34.5/10 kV Transformer, including all connectors; fully equipped											
34.5KV Cable from 33KV Substation to Transformers, including connectors	set	1	312,928	10%	31293	17211	45179	2347	0	3129	99,159
33KV cable											
33KV Cable end connectors	m	300	26,888	10%	2689	1479	3882	202	0	269	8,520
10KV Cable from Transformers to 10KV Substation	set	24	9,720	10%	972	535	1403	73	0	97	3,080
10KV Cable											
10KV Cable end connectors	m	200	20,000	10%	2000	1100	2888	150	0	200	5,338
10KV Electrical Substation including connectors; fully equipped	set	102	41,336	10%	4134	2273	5968	310	0	413	13,098
10KV Substation Switchgears											
Medium Voltage Rubber Matt	set	10	639,956	10%	63996	35198	92394	4800	0	6400	202,786
Uninterruptible Power Supply System	m	50	31,300	10%	3130	1722	4519	235	0	313	9,918
10/0.4 kV Transformer, including connectors; fully equipped	set	1	19,192	10%	1919	1056	2771	144	0	192	6,081
	set	1	70,400	10%	7040	3872	10164	528	0	704	22,308

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

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Raw Water Intake and Low Lift Pump Station											
Mechanical Equipment											
Fine screen / motorized - spare part	set	2	14,414	5%	721	757	1986	108	0	144	3,716
Sluice gate-1-2 / Inlet Coarse Screen - spare part	pc	2	1,169	5%	58	61	161	9	0	12	301
Sluice gate-3-4 / Inlet-Fine Screen channel - spare part	pc	2	1,169	5%	58	61	161	9	0	12	301
Sluice gate-5-6 / Outlet-Fine Screen channel - spare part	pc	2	1,169	5%	58	61	161	9	0	12	301
Screenings discharge - conveyor / horizontal - spare part	pc	1	1,753	5%	88	92	242	13	0	18	452
Drainage pump / Screen channel-1-2 - spare part	pc	2	145	5%	7	8	20	1	0	1	37
Flushing pump / Screen channels - spare part	pc	2	366	5%	18	19	50	3	0	4	94
Sample water pump - clear water tank - spare equipment	pc	1	4,848	5%	242	255	668	36	0	48	1,250
Gate valves flushing connection - spare part	set	1	18	10%	2	1	3	0	0	0	6
Non-return valves - spare part	set	2	41	10%	4	2	6	0	0	0	13
Butterfly valves - spare part	set	2	82	10%	8	5	12	1	0	1	25
River water lift pump - spare part	pc	3	22,728	5%	1136	1193	3132	170	0	227	5,860
Surge Protection unit / Raw water transmission main - spare part	set	1	12,202	5%	610	641	1682	92	0	122	3,146
Check valve - discharge side - River Water Lift Pumps - spare part	pc	3	5,120	10%	512	282	739	38	0	51	1,622
Butterfly valve / motorised-discharge side-River Water Lift Pumps - spare part	pc	3	2,338	10%	234	129	338	18	0	23	741
Air release valve - discharge side - River Water Lift Pumps - spare part	pc	3	131	10%	13	7	19	1	0	1	42
Gate valve - air release - River Water Lift Pumps - spare part	pc	3	26	10%	3	1	4	0	0	0	8
Ball valve - pressure indicator / transmitter - River Water Lift Pumps - spare equipment	pc	6	292	10%	29	16	42	2	0	3	93
Butterfly valve / manually - Maintenance - spare part	pc	2	4,012	10%	401	221	579	30	0	40	1,271
Butterfly valve / manually - Maintenance -- Surge protection - spare part	pc	1	273	10%	27	15	39	2	0	3	87

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CF (EURO)	I/D Rate	Imp. Duty	Nhil/Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Butterfly valve / manually - Maintenance - spare part	pc	2	2,175	10%	218	120	314	16	0	22	689
Gate valve - Transmission main - Drain - spare part	pc	5	160	10%	16	9	23	1	0	2	51
Pressure Relief valve - Transmission main - spare part	pc	1	616	10%	62	34	89	5	0	6	195
Air release valve - Transmission main - spare part	pc	1	64	10%	6	4	9	0	0	1	20
Gate valve - Transmission main - spare part	pc	1	44	10%	4	2	6	0	0	0	14
Ball valve - Sampling - spare equipment	pc	1	293	10%	29	16	42	2	0	3	93
Electrical Equipment					0	0	0	0	0	0	
Low voltage distribution board; including low voltage incoming switchgears and distribution feeders - spare part	set	1	10,574	20%	2115	634	1665	79	0	106	4,600
Frequency Converter Switchgear - spare part	set	3	7,050	20%	1410	423	1110	53	0	71	3,067
Power factor compensation unit - spare part	set	1	72	20%	14	4	11	1	0	1	31
Local control panels - spare part	set	1	574	20%	115	34	90	4	0	5	250
Level Sensor + Transmitter / level upstream screens - spare equipment	pc	2	3,925	20%	785	236	618	29	0	39	1,707
Sampler / sampler - spare part	pc	1	338	20%	68	20	53	3	0	3	147
Pressure gauge / pressure side pumps - spare equipment	pc	3	1,622	20%	324	97	255	12	0	16	706
Pressure Indicator + Transmitter, pumps / pressure side pumps - spare equipment	pc	3	2,008	20%	402	120	316	15	0	20	873
Raw Water Transmission Pipeline.											
Pipe Laying											
Washout Valve Chamber Assembly complete with fitting supply, transport, installation - spare part	pcs	1.00	1,812	20%	362	109	285	14	0	18	788
Air Valve Chamber Assembly complete with fitting supply, transport, installation - spare part	pcs	1.00	739	20%	148	44	116	6	0	7	321
Water Treatment Plant Expansion.											
Mechanical Equipment											
Adjustable overflow weir for distribution to Phases - spare part	pc	2	831	10%	83	46	120	6	0	8	263
Gate valve - Drain - spare part	pc	3	87	10%	9	5	13	1	0	1	28

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Gate valve - Drain - spare part.	pc	2	58	10%	6	3	8	0	0	1	18
Sludge scraper- Clarifier - Chain type scraper - spare part	pc	2	3,608	10%	361	198	521	27	0	36	1,143
Effluent penstock- Clarifier - spare part	pc	3	1,247	10%	125	69	180	9	0	12	395
Lamella plates - spare part	set	1	16,344	10%	1634	899	2360	123	0	163	5,179
Sample water pump - Raw water inlet - spare equipment	pc	1	6,447	5%	322	338	888	48	0	64	1,662
Knife Gate valve / motorised - sampling both Lines - spare part	pc	2	306	10%	31	17	44	2	0	3	97
Knife Gate valve / motorised - sludge discharge - Clarifier - spare part	pc	6	918	10%	92	50	133	7	0	9	291
Knife Gate valve / manual - sludge discharge - Clarifier - spare part	pc	6	174	10%	17	10	25	1	0	2	55
Ball valve - Sampling pump - spare equipment	pc	2	99	10%	10	5	14	1	0	1	31
Sludge Feeding pump to the River - spare part	set	3	1,879	10%	188	103	271	14	0	19	595
Knife Gate valve / manual - suction side - spare part	pc	3	95	10%	10	5	14	1	0	1	30
Knife Gate valve / manual - discharge side - spare part	pc	3	87	10%	9	5	13	1	0	1	28
Non return valve - spare part	pc	3	70	10%	7	4	10	1	0	1	22
Ball valve - flushing connection - Sludge discharge pumps - spare equipment	pc	6	96	10%	10	5	14	1	0	1	30
Ball valve - pressure indicator - Sludge discharge pumps - spare equipment	pc	3	96	10%	10	5	14	1	0	1	30
Flushing connection / coupling - Sludge discharge pumps - spare equipment	pc	6	577	10%	58	32	83	4	0	6	183
Vertical pendular Mixer - Flash Mixing Tanks - spare part	pc	2	716	10%	72	39	103	5	0	7	227
Penstock / 4-side sealed / motorised / Outlet - Flash mixing chambers - spare part	set	2	831	10%	83	46	120	6	0	8	263
Gate valve / manually - spare part	PC	2	58	10%	6	3	8	0	0	1	18
Vertical pendular agitator - spare part	pc	8	3,141	10%	314	173	453	24	0	31	995
Vertical pendular agitator - spare part	pc	8	2,817	10%	282	155	407	21	0	28	893
Knife Gate valve / manual - drain - spare part	pc	4	127	10%	13	7	18	1	0	1	40
Penstock / Inlet - Flocculation tanks - spare part	set	3	1,663	10%	166	91	240	12	0	17	527
Sludge scraper - Central driven - spare part	set	4	6,615	10%	662	364	955	50	0	66	2,096

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of Item	unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Lamella plates - spare part	set	1	20,777	10%	2078	1143	3000	156	0	208	6,584
Drainage pumps / Lamella clarifier pipe gallerie - spare part	pc	2	202	10%	20	11	29	2	0	2	64
Knife Gate valve / motorised - sludge discharge - Clarifier - spare part	pc	4	612	10%	61	34	88	5	0	6	194
Knife Gate valve / manual - sludge discharge - Clarifier - spare part	pc	4	139	10%	14	8	20	1	0	1	44
Knife Gate valve / manual - outlet - Drainage pumps - spare part	pc	2	58	10%	6	3	8	0	0	1	18
Non return valve - outlet - Drainage pumps - spare part	pc	2	52	10%	5	3	8	0	0	1	16
Ball valve - flushing - sludge discharge - Clarifier - spare equipment	pc	4	96	10%	10	5	14	1	0	1	30
Ball valve - Sample water pump - spare equipment	pc	4	96	10%	10	5	14	1	0	1	30
Flushing connection / coupling - Sludge discharge - Clarifier - spare equipment	pc	4	577	10%	58	32	83	4	0	6	183
Sludge Feeding pumps for the Sludge Holding Tank - spare part	pc	3	1,879	10%	188	103	271	14	0	19	595
Knife Gate valve / manual - suction side - Sludge discharge pump - spare part	pc	3	96	10%	10	5	14	1	0	1	30
Knife Gate valve / manual - discharge side - Sludge discharge pump - spare part	pc	3	87	10%	9	5	13	1	0	1	28
Knife Gate valve / manual - sludge discharge - Sludge storage tank - spare part	pc	1	29	10%	3	2	4	0	0	0	9
Non return valve - outlet - sludge discharge pump - spare part	pc	3	70	10%	7	4	10	1	0	1	22
Ball valve / manual- flush connections - spare equipment	pc	6	96	10%	10	5	14	1	0	1	30
Ball valve / manual- PIT connection - spare equipment	pc	3	96	10%	10	5	14	1	0	1	30
Hose coupling - spare equipment	pc	6	577	10%	58	32	83	4	0	6	183
Penstock / motorised - inlet - Filter - 4-side sealing / electrically actuated - spare part	pc	6	1,247	10%	125	69	180	9	0	12	395
Flap type backwash discharge valve - Filter - 4-side sealing / electrically actuated - spare part	pc	12	8,278	10%	828	455	1195	62	0	83	2,623
Filter nozzles with accessories - spare part	pc	1,171	2,693	10%	269	148	389	20	0	27	853

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

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Drainage pump 1 - DMF pipe corridor - spare part	pc	2	202	10%	20	11	29	2	0	2	64
Penstock / manual - Treated water effluent 4-side sealing / manually actuated - spare part	pc	2	554	10%	55	30	80	4	0	6	176
Penstock / 4-side sealing / motorised - connection - Back-wash water station - spare part	pc	1	759	10%	76	42	110	6	0	8	241
Penstock / 4-side sealing / motorised - connection - Clear water tanks - spare part	pc	1	759	10%	76	42	110	6	0	8	241
Butterfly Valve / motorised - Control valve - Filter effluent - spare part	pc	6	3,152	10%	315	173	455	24	0	32	999
Butterfly valve / motorised - Air backwash inlet - Filter - spare part	pc	6	2,684	10%	268	148	388	20	0	27	850
Butterfly valve / motorised - Water backwash inlet - Filter - spare part	pc	6	6,200	10%	620	341	895	47	0	62	1,965
Gate valve / manual - Filter drain - Filter - spare part	pc	6	156	10%	16	9	23	1	0	2	49
Knife gate valve / manual - drain - DMF inlet channel - spare part	pc	2	64	10%	6	4	9	0	0	1	20
Knife Gate valve / manual - outlet - Drainage pumps - spare part	pc	2	35	10%	4	2	5	0	0	0	11
Non return valve - outlet - Drainage pumps - spare part	pc	2	23	10%	2	1	3	0	0	0	7
Ball valve / manual - sample for each filter - spare equipment	pc	6	98	10%	10	5	14	1	0	1	31
Ball valve - inlet - Sample water pump - spare equipment	pc	2	89	10%	10	5	14	1	0	1	31
Ball valve / manual - sample for lines - spare equipment	pc	2	98	10%	10	5	14	1	0	1	31
Air release valve - Back-wash water pipe - spare part	pc	1	58	10%	6	3	8	0	0	1	18
Gate valve - Back-wash water pipe - spare part	pc	1	12	10%	1	1	2	0	0	0	4
Ball valve / manually - Back-wash air pipe - Condensate discharge - spare equipment	pc	1	98	10%	10	5	14	1	0	1	31
Filter media - Filter sand - [Quartz sand / Silica sand] - spare material	to	717	4,191	10%	419	231	605	31	0	42	1,328
Filter media - Hydroanthracite - spare material	m3	247	6,433	10%	643	354	929	48	0	64	2,038

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Overhead Traveling Crane / DMF pipe gallery - spare part	pc	1	1,120	10%	112	62	162	8	0	11	355
Back-wash Water Recirculation - Submersible / centrifugal pump - spare part	pc	3	970	10%	97	53	140	7	0	10	307
Knife gate valve / manual - discharge side Back-wash Water Recirculation - spare part	pc	3	173	10%	17	10	25	1	0	2	55
Non return valve - discharge side Back-wash Water Recirculation - spare part	pc	3	147	10%	15	8	21	1	0	1	47
Filter Back-wash Pump 1-3 - spare part	pc	3	11,404	10%	1140	627	1646	86	0	114	3,614
Air blower 1-3 - Filter air scouring - spare part	pc	3	3,178	10%	318	175	459	24	0	32	1,007
Booster pump 1-3 for Fire fighting - spare part	set	3	1,901	10%	190	105	274	14	0	19	602
Booster pumping station for in-plant service water - spare part	set	3	1,901	10%	190	105	274	14	0	19	602
Chlorination Booster pump - spare part	pc	2	248	10%	25	14	36	2	0	2	79
Drainage pump / Back-wash pump station - spare part	pc	2	202	10%	20	11	29	2	0	2	64
Butterfly Valve / motorised - suction side - Filter Back-wash Pump - spare part	pc	3	4,944	10%	494	272	714	37	0	49	1,567
Check valve - discharge side - Filter Back-wash Pump - spare part	pc	3	4,079	10%	408	224	589	31	0	41	1,293
Butterfly Valve / motorised - discharge side - Filter Back-wash Pump - spare part	pc	3	2,580	10%	258	142	372	19	0	26	818
Butterfly Valve / motorised - by-pass pipe - Filter back-wash rinsing - spare part	pc	1	349	10%	35	19	50	3	0	3	111
Butterfly Valve / motorised - connection - Dual Media Filter - Phase-1 - spare part	pc	1	1,648	10%	165	91	238	12	0	16	522
Butterfly Valve / motorised - discharge side - Air blower 1-3 - spare part	pc	3	979	10%	98	54	141	7	0	10	310
Butterfly Valve / motorised - connection - Dual Media Filter - Phase-1 - spare part	pc	1	447	10%	45	25	65	3	0	4	142
Solenoid valve / Air header - pressure release - spare part	pc	1	14	10%	1	1	2	0	0	0	4
Knife Gate valve / manual - outlet - Drainage pump 1-2 - spare part	pc	2	35	10%	4	2	5	0	0	0	11
Non return valve - outlet - Drainage pump 1-2 - spare part	pc	2	23	10%	2	1	3	0	0	0	7
Valves for Fire fighting booster station - spare part	set	1	828	10%	83	46	120	6	0	8	262

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

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Valves for In-plant service water booster station - spare part	set	1	551	10%	55	30	80	4	0	6	175
Valves for Chlorination water booster pumps - spare part	set	1	416	10%	42	23	60	3	0	4	132
Overhead Traveling Crane / Back-wash water Pump house - spare part	set	1	1,732	10%	173	95	250	13	0	17	549
Penstock / motorised - inlet - clear water tank - spare part	pc	2	1,657	10%	166	91	239	12	0	17	525
Butterfly Valve / motorised / with spindle extension, - spare part	pc	2	6,021	10%	602	331	869	45	0	60	1,908
Gate valve / manually - drain - Clear water tank - spare part	pc	2	58	10%	6	3	8	0	0	1	18
Set of valves sampling - spare part	set	1	118	10%	12	6	17	1	0	1	37
Vertical pendular mixer - ALU preparation - spare part	pc	3	762	10%	76	42	110	6	0	8	241
ALU dosing - Dosing pump unit - spare part	pc	3	2,476	10%	248	136	357	19	0	25	785
Set of valves - spare part	set	1	1,377	10%	138	76	199	10	0	14	436
Set of piping material and fittings - spare part	set	1	577	20%	115	35	91	4	0	6	251
Overhead Traveling Crane / Chemical building spare part	pc	1	1,377	10%	138	76	199	10	0	14	436
Safety shower - spare equipment	pc	1	3,484	10%	346	191	500	26	0	35	1,098
Polymer dosing - Polymer preparation- & dosing unit - spare part	pc	2	2,425	10%	243	133	350	18	0	24	768
Polymer dosing - Dosing pump - spare part	pc	2	191	10%	19	11	28	1	0	2	61
Mixer - KMnO4 preparation - spare part	pc	2	260	10%	26	14	38	2	0	3	82
KMnO4 dosing pump - spare part	pc	3	728	10%	73	40	105	5	0	7	231
Set of valves - spare part	set	1	384	10%	36	20	53	3	0	4	115
Chlorine gas scrubber with accessories - spare part	set	1	4,148	10%	415	228	599	31	0	41	1,314
Overhead Traveling Crane - spare part	set	1	1,527	10%	153	84	220	11	0	15	484
Vertical pendular mixer - LIME milk preparation - spare part	pc	2	1,010	10%	101	56	146	8	0	10	320
LIME milk transfer pumps - spare part	pc	2	370	10%	37	20	53	3	0	4	117
Vertical pendular mixer - LIME solution preparation - spare part	pc	1	251	10%	25	14	36	2	0	3	80
LIME dosing - Dosing pump unit - spare part	pc	2	1,720	5%	86	90	237	13	0	17	443
Set of valves - spare part	set	1	1,625	10%	163	89	235	12	0	16	515

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Submersible mixer - Sludge tank - spare part	pc	1	245	10%	25	13	35	2	0	2	78
Sludge feed pump - spare part	pc	2	843	5%	42	44	116	6	0	8	217
Knife Gate valve / manual - suction side - spare part	pc	2	64	10%	6	4	9	0	0	1	20
Non return valve - discharge side - spare part	pc	2	64	10%	6	4	9	0	0	1	20
Knife Gate valve / manual - discharge side - spare part	pc	1	32	10%	3	2	5	0	0	0	20
Overhead traveling crane - spare part	pc	1	635	10%	64	35	92	5	0	6	201
Electrical Equipment & Installation											
Low voltage distribution board - spare part	set	1	21,579	10%	2158	1187	3115	162	0	216	5,838
Power factor compensation unit - spare part	set	1	412	10%	41	23	59	3	0	4	131
Motor control center panels - spare part	set	1	7,318	10%	732	402	1057	55	0	73	2,319
UPS system at relevant connection points for 50KVA generator - spare part	set	1	2,059	5%	103	108	284	15	0	21	531
Building electrical services - spare part	set	1	9,224	20%	1845	553	1453	69	0	92	4,012
Local control panels - spare part	set	1	7,226	20%	1445	434	1138	54	0	72	3,143
Level switch / Level distribution chamber - spare equipment	pc	1	427	20%	85	26	67	3	0	4	186
Level switch / Cascade distribution - spare equipment	pc	1	427	20%	85	26	67	3	0	4	186
Pressure indicator / transmitter / pressure sludge discharge - spare equipment	pc	3	1,736	20%	347	104	273	13	0	17	755
Diaphragm pressure gauge, stainless steel version / service water PS - spare equipment	pc	1	1,402	20%	280	84	221	11	0	14	610
Diaphragm pressure gauge, stainless steel version / service water PS - spare equipment	pc	1	1,402	20%	280	84	221	11	0	14	610
Pressure indicator / transmitter / Sludge pumps - spare equipment	pc	2	1,736	5%	87	91	239	13	0	17	448
New Daboase High Lift Pumping Station											
Mechanical Equipment & Installation											
High Lift Water Pump 1-3 - spare part	pc	3	25,418	5%	1271	1334	3503	191	0	254	6,553
Surge Protection unit with accessories / Treated water transmission main - spare part	set	1	13,665	5%	683	717	1883	102	0	137	3,523
Drainage pump / Treated Water Lift Pump house - spare part	pc	2	152	5%	8	8	21	1	0	2	39

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Booster pumping station for in-plant drinking water supply - spare part	set	1	679	5%	34	36	94	5	0	7	1,175
Sample water pump - Treated water - discharge spare equipment	pc	1	4,878	5%	244	256	672	37	0	49	1,258
Butterfly valve / motorised - suction side - spare part	pc	3	3,827	10%	383	210	553	29	0	38	1,213
Check valve - discharge side - Water Pump 1-3 - spare part	pc	3	5,161	10%	516	284	745	39	0	52	1,635
Butterfly valve / motorised - discharge side - Water Pump 1-3 - spare part	pc	3	2,352	10%	235	129	340	18	0	24	745
Butterfly valve / manually - connection suction header - spare part	pc	1	3,002	10%	300	165	433	23	0	30	951
Butterfly valve / manually - connection suction header - spare part	pc	1	2,136	10%	214	117	308	16	0	21	677
Butterfly valve / manually - pressure header - spare part	pc	2	4,049	10%	405	223	585	30	0	40	1,283
Butterfly valve / manually - maintenance - Flow meter - spare part	pc	1	1,697	10%	170	93	245	13	0	17	538
Knife Gate valve / manual - outlet - Drainage pump - spare part	pc	2	23	10%	2	1	3	0	0	0	7
Non return valve - outlet - Drainage pump - spare part	pc	2	18	10%	2	1	3	0	0	0	6
Ball valve - inlet - Sample water pump - spare equipment	pc	2	100	10%	10	6	14	1	0	1	32
Valves for Booster pumping station for in-plant drinking water supply - spare part	pc	1	155	10%	16	9	22	1	0	2	49
Ball valve - outlet - PI and PIT connection - spare equipment	pc	7	100	10%	10	6	14	1	0	1	32
Ball valve - inlet - Sample water pump - spare equipment	pc	1	100	10%	10	6	14	1	0	1	32
Butterfly valve / manually - isolation of Drinking Water pumps - spare part	pc	1	70	10%	7	4	10	1	0	1	22
Overhead Traveling Crane / Treated Water Pump house - spare part	set	1	3,060	10%	306	168	442	23	0	31	970
Butterfly valve / manually - connection surge pressure vessel - spare part	pc	1	474	10%	47	26	68	4	0	5	150
Pressure Relief valve - Transmission main - spare part	pc	1	620	10%	62	34	90	5	0	6	196

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Air release valve - Transmission main - spare part	pc	1	64	10%	6	4	9	0	0	1	20
Gate valve - Transmission main - spare part	pc	1	44	10%	4	2	6	0	0	0	14
Frequency converter for high lift pumps - spare part	pc	3	24,552	10%	2,455	1,350	3,545	184	0	2,46	7,780
10KV Cable to Motors from Switchgears to Frequency converters - spare part	set	1	494	10%	49	27	71	4	0	5	157
Pressure indicator / transmitter / pressure clear water pumps - spare equipment	pc	3	880	10%	88	48	127	7	0	9	279
Diaphragm pressure gauge, stainless steel version / pressure clear water pumps - spare equipment	pc	3	711	10%	71	39	103	5	0	7	225
Water meter / water meter drinking water pumps - spare equipment	pc	1	204	10%	20	11	29	2	4	2	69
Telemetry and SCADA											
SCADA connection to River Intake.											
PLC Switchgear including Monitor, FOC Switch and UPS system - spare part	set	1	1,707	5%	85	90	235	13	0	17	440
Automation and SCADA for WTP Dabose.											
PLC Switchgear with 17" Monitor incl FOC Switch and UPS - spare part	set	2	10,840	5%	542	569	1,494	81	0	108	2,795
Bulk power supply and electrical installation:											
DABOSE DWTP POWER SUPPLY											
Line Disconnector Switch with fuse for pole for connection to 34.5KV line - spare part	set	1	565	5%	28	30	73	4	0	6	146
34.5KV Electrical Substation - spare part	set	1	10,505	5%	525	552	1,448	79	0	105	2,708
10KV Electrical Substation - spare part	set	1	31,711	5%	1,586	1,665	4,370	238	0	317	8,175
Caterpillar's Crane, max. load 110 to	pcs	2	2,466,000	5%	123,300	0	0	18,495	0	24,660	166,455
Tower Swing Crane, max. load 4.5 to	pcs	4	2,000,000	5%	100,000	0	0	15,000	0	20,000	135,000
Mobil Construction Crane, max. load 8,0 to	pcs	1	900,000	5%	45,000	0	0	6,750	0	9,000	60,750
Internal vibrator electric drive; 42V, L=400mm; Dia- 57mm	pcs	8	7,792	5%	390	0	0	58	0	78	526
Transformer for 3 el. Vibrators; 400V/42V; 3.8kVA	pcs	4	7,148	5%	357	0	0	54	0	71	482
Rough terrain crane; 15x2.0m-30tn; Hmax=18.8m	pcs	3	600,000	5%	30,000	0	0	4,500	0	6,000	40,500

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

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Rough terrain crane; 35x3.0m=105tm; Hmax=31.2m	pcs	2	802,500	5%	40125	0	0	6019	0	8025	54,169
Concrete skip; V=750L	pcs	3	2,595	5%	130	0	0	19	0	26	175
Fork lift; 4.0t; 55.5W	pcs	2	149,400	5%	7470	0	0	1121	0	1494	10,085
Hydraulic excavator; 122kW; bucket V=1.60m3	pcs	3	1,038,504	5%	51925	0	0	7789	0	10385	70,099
Hydraulic excavator; 175kW; bucket V=2.00m3	pcs	2	1,003,000	5%	50150	0	0	7523	0	10030	67,703
Hydraulic wheel excavator; 105kW; bucket V=0.90m3	pcs	1	287,820	5%	14391	0	0	2159	0	2878	19,428
Hydraulic wheel excavator; 126kW; bucket V=1.60m3	pcs	2	701,608	5%	35080	0	0	5262	0	7016	47,359
Ditch bucket; V=0.35m3; W=1.5m	pcs	1	3,630	5%	182	0	0	27	0	36	245
Backhoe loader; 82kW; 4x4; V=1.0/0.3m3	pcs	1	176,800	5%	8840	0	0	1326	0	1768	11,934
Wheel loader; 72kW; V=1.5m3	pcs	2	208,900	5%	10445	0	0	1567	0	2089	14,101
Wheel loader; 114kW; V=2.1m3	pcs	2	336,500	5%	16825	0	0	2524	0	3365	22,714
Dozer & Blade; 154kW; SU-5.3m3	pcs	1	443,688	5%	22184	0	0	3328	0	4437	29,949
Tandem vibratory roller; 3.30t; W=1.00m	pcs	1	53,640	5%	2682	0	0	402	0	536	3,621
Vibratory trench roller; 1.60t; W=0.61m	pcs	2	70,512	5%	3526	0	0	529	0	705	4,760
Vibratory reversible plate; 210kg; W=0.42m	pcs	4	32,960	5%	1648	0	0	247	0	330	2,225
Vibratory tamper with petrol engine; 68kg; W=0.28m	pcs	2	6,280	5%	314	0	0	47	0	63	424
Bitumen sprayer; 5.9kW; V=250L	pcs	1	11,525	5%	576	0	0	86	0	115	778
Joint cutter; cutting depth 0.24m	pcs	1	9,380	5%	469	0	0	70	0	94	633
Milling machine with belt conveyor; mill.W=0.5m; mill.D=0.16m	set	1	176,200	5%	8810	0	0	1322	0	1762	11,894
Hydraulic jack hammer for excavator 18-30t	pcs	1	52,820	5%	2641	0	0	396	0	528	3,565
Trench cutting machine w. chain; W=70-450mm; D=0.3-1.5m	set	1	160,000	5%	8000	0	0	1200	0	1600	10,800
Pressure testing instrument w. pump	set	2	24,860	5%	1243	1305	3426	186	497	249	6,906
Tipper truck 3-way; 4x2; 10t	pcs	1	100,920	5%	5046	5298	13908	757	2018	1009	28,037
Diesel Tanker; 4x2; 10m3	pcs	1	142,047	5%	7102	7457	19576	1065	2841	1420	39,462
Water Tanker; 6x4; 20m3	pcs	1	155,000	5%	7750	8138	21361	1163	3100	1550	43,061
Dump truck; 6x4; 25.0t; 230kW	pcs	3	388,500	5%	19425	20396	53540	2914	7770	3885	107,930
Loading crane on truck; 10.0to	pcs	1	295,960	5%	14798	15538	40787	2220	5919	2960	82,221
Primerover; 4x2	pcs	1	110,000	5%	5500	0	0	825	0	1100	7,425

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

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Semi-platform trailer, 3 axles; 30/36t	pcs	1	47,629	5%	2381	0	0	357	0	476	3,215
Mobile compressor; 5.3m ³ /min; 7Bar	set	1	23,530	5%	1177	0	0	176	0	235	1,588
Jack hammer; 19.0kg; 1.5m ³ /min	pcs	1	1,510	5%	76	0	0	11	0	15	102
Generator; 5.0kVa; 220-240V; 50Hz; 1500RPM	pcs	1	2,670	5%	134	140	368	20	0	27	688
Generator; P11-6S; 11kVa; 220-240V; 50Hz; 1500RPM	pcs	1	9,260	5%	463	486	1276	69	0	93	2,387
Generator; 22kVa; 380-415V; 50Hz; 1500RPM	pcs	1	11,033	5%	552	579	1520	83	0	110	2,844
Generator; 110kVa; 380-415V; 50Hz; 1500RPM	pcs	1	21,808	5%	1090	1145	3005	164	0	218	5,622
Ballcofight; 2500W; 5.5 KVA	pcs	5	28,000	5%	1400	1470	3859	210	0	280	7,219
Submersible pump; Q=50l/s at H=10m; 10.0kW	pcs	2	17,400	5%	870	914	2398	131	0	174	4,486
PE pipe welding machine; dia=90-355mm, 2.5kW	pcs	1	9,822	5%	491	0	0	74	0	98	663
PE pipe welding machine; dia=200-630mm, 8.0kW	pcs	1	22,671	5%	1134	0	0	170	0	227	1,530
PE pipe welding machine; dia=500-800mm, 12.0kW	pcs	1	45,352	5%	2268	0	0	340	0	454	3,061
Chain saw, cut length 0.75m	pcs	5	8,355	5%	418	0	0	63	0	84	564
Reinforcement cutting machine	pcs	2	9,200	5%	960	0	0	144	0	192	1,296
Reinforcement bending machine	pcs	2	41,200	5%	2060	0	0	309	0	412	2,781
Survey equipment; 1x 20'	pcs	1	45,000	5%	2250	0	0	338	0	450	3,036
Multi meter for pH and O2 incl pH probe	pcs	1	1,434	5%	72	0	0	11	0	14	97
Dissolved Oxygen probe	pcs	1	843	5%	42	0	0	6	0	8	57
Free Chlorine portable Photometer	pcs	1	2,480	5%	124	0	0	19	0	25	167
Low voltage insulation megger	set	1	1,000	5%	50	0	0	8	0	10	68
Medium voltage insulation megger	set	1	2,000	5%	100	0	0	15	0	20	135
Hydraulic cable lug press	set	1	500	5%	25	0	0	4	0	5	34
Hydraulic hole puncher	set	1	1,000	5%	50	0	0	8	0	10	68
Digital Multimeter	set	1	800	5%	40	0	0	6	0	8	54
Clamp on Ammeter	set	1	800	20%	160	48	126	6	16	8	364
Bolt welding machine	set	1	1,500	5%	75	0	0	11	0	15	101
MIG and TIG Welding Machines	set	8	16,000	5%	800	0	0	120	0	160	1,080
Angular cutting machine	set	8	3,200	5%	160	0	0	24	0	32	216
Drilling machine	set	8	3,200	5%	160	0	0	24	0	32	216

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Portable turbidimeter	set	1	1,869	5%	93	0	0	14	0	19	126
Stuart Flocculator with 6 rotators (without beakers)	Set	1	7,522	5%	376	395	1037	56	150	75	2,090
Pyrrex beakers tall form 1 litre	Set	1	95	5%	5	5	13	1	2	1	26
Distilled Water Plant, Water still 4l/hr	Set	1	4,280	5%	214	225	590	32	86	43	1,189
DR 6000 UV VIS Spectrophotometer with RFID technology	Set	1	16,347	5%	817	858	2253	123	327	163	4,541
DR 3900 UV VIS Spectrophotometer with RFID technology	Set	1	7,861	5%	393	413	1083	59	157	79	2,184
Bench top TU5200 laser turbidimeter 0-1000 ISO version without RFID	Set	2	14,790	5%	740	776	2038	111	296	148	4,109
Portable Turbidimeter 2100Q EPA	Set	2	5,548	5%	277	291	765	42	111	55	1,541
Sample Cell with cap 1 inch for 2100P/2100Q	Set	3	267	5%	13	14	37	2	5	3	74
Sension + pH1 basic pH meter field kit with electrode, case and standards	Set	2	1,858	5%	93	98	256	14	37	19	516
HQ411D laboratory digital pH meter with probe and holder	Set	2	2,866	5%	143	150	395	21	57	29	796
Intellical Gel filled combination pH probe 1 m cable PHC10101	Set	3	2,073	5%	104	109	286	16	41	21	576
Sension+EC7 laboratory conductivity meter lab kit with 5070 cell stirrer stand buffer and cal beaker set	Set	1	1,368		68	72	189	10	27	14	380
Sension+EC5 conductimeter conductivity field kit with 5060 electrodes	Set	1	1,060	5%	53	56	146	8	21	11	294
HQ430d, digital multimeter, benchtop, one channel pH, ORP/Conductivity/DO(LDO) meter with probe	Set	1	1,937	5%	97	102	267	15	39	19	538
Intellical gel ORP probe 3 m cable	Pcs	2	2,290	5%	115	120	316	17	46	23	636
Dissolved Oxygen meter FiveGo Standard kit with LE621 Sensor	Set	2	7,090	5%	355	372	977	53	142	71	1,970
Handheld colourimeter II Chlorine free + total Chlorine, free; PP; 0-2.00 mg/L 10 ml sample; 100/pkg; DPD-method	Set	2	6,074	5%	304	319	837	46	121	61	1,687
Chlorine, total; PP; 0-2.00 mg/L 10 ml sample; 100/pkg; DPD method	Set	5	1,015	5%	51	53	140	8	20	10	282
Chlorine, total; PP; 0-2.00 mg/L 10 ml sample; 100/pkg; DPD method	Set	5	1,015	5%	51	53	140	8	20	10	282

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Pipette bulb grade b 10ml	Pcs	5	185	5%	9	10	25	1	4	2	51
Pipette bulb grade b 5ml	Pcs	5	150	5%	8	8	21	1	3	2	42
Pipette bulb grade b 1ml	Pcs	5	125	5%	6	7	17	1	3	1	35
Pipette bulb grade b 25ml	Pcs	5	260	5%	13	14	36	2	5	3	72
Pipette bulb grade b 50ml	Pcs	5	300	5%	15	16	41	2	6	3	83
Pipette controller bibbette plain	Pcs	5	670	5%	34	35	92	5	13	7	186
Pipette controller bibbette plain	Pcs	5	670	5%	34	35	92	5	13	7	186
Pipette filler rubber 3 valve red	Pcs	5	60	5%	3	3	8	0	1	1	17
Membrane Circles, Cellulose Nitrate, White Gridded, Sterile 0.45µm, 47mm 100/pk	Set	10	7,190	5%	360	377	991	54	144	72	1,997
Innoculating needle, sterile, rigid	Set	5	595	5%	30	31	82	4	12	6	165
Petri dish glass 100 x 15mm pk 18	Set	5	225	5%	11	12	31	2	5	2	63
90 mm Petri dish sterile sleeve case of 500	Set	5	895	5%	45	47	123	7	18	9	249
Steriplan Petri dish, 100 x 15mm soda lime - glass Pack of 10	Set	5	75	5%	4	4	10	1	2	1	21
Test tube sds w/rim 125x18mm	Set	5	1,555	5%	78	82	214	12	31	16	432
CP Surechem 2.5 litres	Lite r	4	2,692	5%	135	141	371	20	54	27	748
Mac-Conkey Broth 500g oxid	Set	5	640	5%	32	34	88	5	13	6	173
E.C. Broth 500g Oxid	Set	5	665	5%	33	35	92	5	13	7	185
Brilliant green bile 2% Broth 500g Oxid	Set	5	680	5%	34	36	94	5	14	7	189
Peptone water oxid 500 g	Set	5	415	5%	21	22	57	3	8	4	115
Reagent indole-kovacs oxid 500 g	Set	5	300	5%	15	16	41	2	6	3	83
Mac-Conkey Agar 500g Oxid	Set	5	640	5%	32	34	88	5	13	6	178
Nutrient Agar 500g Oxid	Set	5	730	5%	37	38	101	5	15	7	203
Chromocult Agar 500 g	Set	5	4,230	5%	212	222	583	32	85	42	1,175
Brilliance E Colli/Coliform Medium 500g Oxid	Set	1	2,589	5%	129	136	357	19	52	26	719
Pump, pressure vacuum, 5 litres	Set	1	922	5%	46	48	127	7	18	9	256

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Forceps blunt 125mm	Set	1	23	5%	1	1	3	0	0	0	6
Uv lamp 6w, 254nm fit 50x150mm	Set	1	344	5%	17	18	47	3	7	3	56
3-Branch manifold system 3 + 100ml funnels + Frit for 47 mm filter + tubing red rubber 10 x 2	Set	1	3,485	5%	174	183	480	26	70	35	968
Cotton wool non absorbent white	Pcs	6	30	5%	2	2	4	0	1	0	8
Gloves, nitrile, clear, medium	Set	5	48	5%	2	3	7	0	1	0	13
Spatula chattaway stainless steel 100mm	Pcs	5	685	5%	34	36	94	5	14	7	190
Spatula spoon end stainless steel 120mm	Pcs	5	110	5%	6	6	15	1	2	1	31
Stopwatch digital 8.2mm display	Pcs	5	150	5%	8	8	21	1	3	2	42
Forceps fine point straight 125mm	Pcs	3	75	5%	4	4	10	1	2	1	21
Clamp 3 prong alloy rubber covered jaws	Pcs	10	234	5%	12	12	32	2	5	2	65
Beaker tongs fisher pattern	Pcs	10	300	5%	15	16	41	2	6	3	83
Tripod stand iron rod 125mm	Pcs	6	1,430	5%	72	75	197	11	29	14	397
Gauze ceramic centre 15x15cm	Pcs	10	90	5%	5	5	12	1	2	1	25
Bottles graduated cap & pouring ring 250ml	Pcs	4	190	20%	38	11	30	1	4	2	86
Bottles graduated cap & pouring ring 500ml	Pcs	4	112	20%	22	7	18	1	2	1	51
Bottles graduated cap & pouring ring 1000ml	Pcs	4	112	20%	22	7	18	1	2	1	51
Bottles media lab amber w/o cap 250ml	Pcs	2	58	20%	12	3	9	0	1	1	26
Bottles media lab amber w/o cap 500ml	Pcs	4	112	20%	22	7	18	1	2	1	51
Bottles media lab amber w/o cap 1000ml	Pcs	4	112	20%	22	7	18	1	2	1	51
Bottles media universal wm with ali cap 28ml	Pcs	4	112	20%	22	7	18	1	2	1	51

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Bottles clear s/shoulder bscap 500ml	Pcs	4	112	20%	22	7	18	1	2	1	51
Bottles amber s/shoulder bscap 500ml	Pcs	4	112	20%	22	7	18	1	2	1	51
Bottle reagent clear wide mouth stoppered 500m	Pcs	4	112	20%	22	7	18	1	2	1	51
Bottles wash pe 500ml	Pcs	4	112	20%	22	7	18	1	2	1	51
Sample cell, 1-inch pk/2	Pcs	4	112	5%	6	6	15	1	2	1	31
Pyrex beaker low form with spout 1ltr	Pcs	5	140	5%	7	7	19	1	3	1	39
Pyrex beaker low form with spout 500ml	Pcs	5	140	5%	7	7	19	1	3	1	39
Pyrex beaker low form with spout 250ml	Pcs	5	140	5%	7	7	19	1	3	1	39
Pyrex beaker low form with spout 100ml	Pcs	5	140	5%	7	7	19	1	3	1	39
Pyrex beaker low form with spout 50ml	Pcs	5	140	5%	7	7	19	1	3	1	39
Boiling flask flat bottom 500ml Pyrex	Pcs	4	112	5%	6	6	15	1	2	1	31
Flask round bottom narrow neck Pyrex 500m	Pcs	4	112	5%	6	6	15	1	2	1	31
Erlenmeyer flask wide neck 250ml simax	Pcs	4	112	5%	6	6	15	1	2	1	31
Erlenmeyer flask normal neck 250ml Pyrex	Pcs	4	112	5%	6	6	15	1	2	1	31
Erlenmeyer flask normal neck 1ltr Pyrex	Pcs	4	112	5%	6	6	15	1	2	1	31
Erlenmeyer flask normal neck 100ml PyreX	Pcs	4	112	5%	6	6	15	1	2	1	31
Flask volumetric boro class a 250ml	Pcs	5	140	5%	7	7	19	1	3	1	39
Flask volumetric boro class a 500ml	Pcs	5	140	5%	7	7	19	1	3	1	39
Flask volumetric boro class a 1000ml	Pcs	10	280	5%	14	15	39	2	6	3	78

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Volumetric flask class b mbl 2000ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Flask volumetric boro class a 100ml	Pcs	6	168	5%	8	9	23	1	3	2	47
Flask volumetric boro class a 50ml	Pcs	6	168	5%	8	9	23	1	3	2	47
Pipette bulb soda glass as 5ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette bulb soda glass as 10ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette bulb soda glass as 25ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette bulb soda glass as 50ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette graduated class b 1ml type 1	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette graduated class b 2ml type 1	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette graduated class b 5ml type 1	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette graduated class b 10ml type 1	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette graduated class b 25ml type 1	Pcs	10	280	5%	14	15	39	2	6	3	78
Liquipette 152mm sterile grad pe	Pcs	10	280	5%	14	15	39	2	6	3	78
Liquipette 152mm graduated pe	Pcs	10	280	5%	14	15	39	2	6	3	78
Pipette 1ml single wrap	Pcs	20	560	5%	28	29	77	4	11	6	156
Pipette 5ml single wrap & suction	Pcs	20	560	5%	28	29	77	4	11	6	156
Measuring Cylinder 5ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder 10ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder 25ml	Pcs	10	280	5%	14	15	39	2	6	3	78

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Measuring Cylinder 50ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder 100ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder 250ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder 500ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder 1000ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder Pp moulded azlon 10ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder. PP moulded azlon 25ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder. PP moulded azlon 50ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder. PP moulded azlon 100ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder. PP moulded azlon 250ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder. Pp moulded azlon 500ml	Pcs	10	280	5%	14	15	39	2	6	3	78
Measuring Cylinder. Pp moulded azlon 1000ml	Pcs	10	490	5%	25	26	68	4	10	5	136
Burette single bore 10ml class as ptfé key Pyrex	Pcs	5	140	5%	7	7	19	1	3	1	39
Burette single bore 25ml class as ptfé key Pyrex	Pcs	5	140	5%	7	7	19	1	3	1	39
Burette single bore 50ml class as ptfé key Pyrex	Pcs	5	140	5%	7	7	19	1	3	1	39
Burette single bore 50ml class as ptfé key Pyrex	Pcs	5	140	5%	7	7	19	1	3	1	39
Burette auto zero 10ml	Pcs	5	140	5%	7	7	19	1	3	1	39
30ml digital burette VWR	Pcs	5	140	5%	7	7	19	1	3	1	39
Funnel glass Pyrex short stem 45mm dia	Pcs	5	140	5%	7	7	19	1	3	1	39

TAX ASSESSMENT FOR SEKONDI-TAKORADI WATER SUPPLY EXPANSION PROJECT

Description of item	Unit	Qty	CIF (EURO)	I/D Rate	Imp. Duty	Nhil/ Gfund 5%	Imp. VAT 12.5%	EXIM Levy 0.75%	SIL 0%/2%	COVID Levy 1%	TOTAL (EURO)
Funnel glass Pyrex short stem 125mm dia	Pcs	5	140	5%	7	7	19	1	3	1	39
Funnels analytical PP 65mm dia	Pcs	5	140	5%	7	7	19	1	3	1	39
Funnel analytical PP 150mm dia	Pcs	5	140	5%	7	7	19	1	3	1	39
Test tube Soda Rimmed 50x10 pk 250	Pos	6	168	5%	8	9	23	1	3	2	47
Test tube Soda Rimmed 75x12 pk 100	Pos	6	168	5%	8	9	23	1	3	2	47
Test tube Soda Rimmed 100x16 pk 100	Pos	6	168	5%	8	9	23	1	3	2	47
Test tube Soda Rimmed 125x16 pk 100	Pcs	6	168	5%	8	9	23	1	3	2	47
Test tube Soda Rimmed 150x16 pk 100	Pcs	6	186	5%	9	10	26	1	4	2	52
Desiccator glass knob lid ZN Disc 200mm chems and reagent.	Pcs	6	3,348	5%	167	176	461	25	67	33	930
Hydrochloric acid cp 36% Surechem	Set	5	315	5%	16	17	43	2	6	3	88
Ammonia solution sg 0.91 AR Surechem	Set	5	315	5%	16	17	43	2	6	3	88
Sodium Hydroxide E pellets AR Surechem	Set	4	252	5%	13	13	35	2	5	3	70
Sodium hydroxide 0.1m (0.1n) Surechem	Set	4	252	5%	13	13	35	2	5	3	70
Manganese chloride 6-hydrate AR Surechem	Set	4	252	5%	13	13	35	2	5	3	70
Ammonium chloride ar Surechem	Set	2	126	5%	6	7	17	1	3	1	35
Sodium Thiosulphate 5-hydrate AR Surechem	Set	2	126	5%	6	7	17	1	3	1	35
Ethylenediamine-n,n',n''tetra-acetic acid cp Surechem	Set	5	315	5%	16	17	43	2	6	3	88
Silver nitrate ar Surechem	Set	4	252	5%	13	13	35	2	5	3	70
Silver nitrate ar Surechem	Set	4	252	5%	13	13	35	2	5	3	70
Sodium fluoride cp Surechem	Set	2	126	5%	6	7	17	1	3	1	35
Sulphuric acid 95% ar Surechem	Set	4	376	5%	19	20	52	3	8	4	104
Potassium chloride ar Surechem	Set	5	315	5%	16	17	43	2	6	3	88
Potassium dichromate cp Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Ammonium nitrate ar Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Potassium iodide cp Surechem	Set	3	189	5%	9	10	26	1	4	2	53

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Potassium iodate cp Sureche	Set	3	189	5%	9	10	26	1	4	2	53
Potassium Permanganate, crystal	Set	3	189	5%	9	10	26	1	4	2	53
Sodium nitrate cp Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Starch indicator solution, 1 L	Set	3	189	5%	9	10	26	1	4	2	53
STARCH soluble CP Surechem	Set	3	189	5%	9	10	26	1	4	2	53
ZINC powder CP Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Nitric acid ar Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Sulphanilic acid tech Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Ammonium sulphate cp Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Calcium carbonate precipitated CP Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Calcium chloride 2-hydrate CP Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Zinc chloride Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Potassium chromate cp Surechem	Set	3	189	5%	9	10	26	1	4	2	53
Phenolphthalein, acs, reag. Ph. Eu	Set	5	90	5%	5	5	12	1	2	1	25
Methyl orange Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Methyl red Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Bromothymol blue pH Indicator Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Thymol blue Free acid Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Phenol red Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Buffer, Powder pillow, ph 7.00; yellow color code; pk/250	Set	5	90	5%	5	5	12	1	2	1	25
Buffer, Powder pillow, ph 4.01; red color code; pk/250	Set	5	90	5%	5	5	12	1	2	1	25
Buffer, Powder pillow, ph 10.00; blue color code	Set	5	90	5%	5	5	12	1	2	1	25
Universal indicator pH 4 - 11 Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Methyl red Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Cresol Red pH Indicator Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Free Chlorine Reagent Powder Pillows, DPD (pk/100)	Set	10	180	5%	9	9	25	1	4	2	50
Ammonia buffer solution for complexometry (Ammonium Chloride/ammonia)Ph= 10-11	Set	2	90	5%	3	3	8	0	1	1	17
Eriochrome black t (c.i. 14645) Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Murexide c.i. 56085 Surechem	Set	5	90	5%	5	5	12	1	2	1	25
Lovibond comparator 2000+	Set	3	216	5%	11	11	30	2	4	2	60

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Nessleriser 2150-complete	Set	3	8,754	5%	438	460	1206	66	175	88	2,432
Comparator system 2000 disc hazen 0-30m	Set	3	1,185	5%	59	62	163	9	24	12	329
Comparator system 2000 disc hazen 30-70m	Set	3	1,185	5%	59	62	163	9	24	12	329
Nsb hazen scale disc	Set	3	1,185	5%	59	62	163	9	24	12	329
Comparator system 2000 disc bromothymol blue	Set	3	1,185	5%	59	62	163	9	24	12	329
2/1a thymol blue disc	Set	3	1,185	5%	59	62	163	9	24	12	329
Comparator 2000 disc 2/1	Set	3	1,185	5%	59	62	163	9	24	12	329
Comparator system 2000 disc methyl red	Set	3	1,185	5%	59	62	163	9	24	12	329
Comparator system 2000 disc chlorine total	Set	3	1,185	5%	59	62	163	9	24	12	329
Dip ph tester checker 1 0-14phx0.01	Set	3	135	5%	7	7	19	1	3	1	38
Chlorine, total PP; 100/pkg (DPD) 25 ml sample	Set	3	111	0%	0	6	15	1	2	1	24
Chlorine, free PP; 100/pkg (DPD) 25 ml sample	Set	3	111	0%	0	6	15	1	2	1	24
Ferrouver Iron Reagent Powder Pillows, 0.02-3.00mg/L Fe	Set	6	240	0%	0	12	32	2	5	2	53
Nitrate; PP; 0-0.50 mg/l; 100/pkg nitriver 3; 25 ml sample; (Cd-Red)	Set	6	240	0%	0	12	32	2	5	2	53
Nitriver 5 Nitrate Reagent Powder Pillows, 0.110mg/L NO3-N	Set	6	240	0%	0	12	32	2	5	2	53
Cuver 1 Copper Reagent Powder Pillows, 0.045.00mg/L Cu	Set	6	240	0%	0	12	32	2	5	2	53
Sulfate; sulfaver 4 Reagent; PP 2-70 mg/L; 25 ml sample; 100/pkg	Set	6	240	0%	0	12	32	2	5	2	53
Manganese; PP; 0.007-0.700 mg/L Mn set for 50 tests; PAN method	Set	6	240	0%	0	12	32	2	5	2	53
Spadhs; reagent soln., 500ml	Set	6	240	0%	0	12	32	2	5	2	53
Phosphate, ortho; phosver 3 Reagent PP; 0-2.5 mg/L PO4; 100/pkg; 25 m	Set	6	240	0%	0	12	32	2	5	2	53
Aluminium; PP; 0.008-0.800 mg/L set for 100 tests; Aluminium method	Set	6	240	0%	0	12	32	2	5	2	53
Reagent set; zinc, zircon, 50 ml	Set	6	240	0%	0	12	32	2	5	2	53
Chromium; chromaver 3 Reagent; PP 0.01-0.7 mg/L	Set	6	240	0%	0	12	32	2	5	2	53
yanide Reagent Set; PP; 100/pkg 0-0.240 mg/L; Pyridine-Pyrazole	Set	6	240	0%	0	12	32	2	5	2	53

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Arsenic std soln, 1000mg/l 100ml	Set	6	240	0%	0	12	32	2	5	2	53
Rochelle Salt-PVA Reagent, 500 ml	Set	6	240	0%	0	12	32	2	5	2	53
Nessler Reagent, 500 ml	Set	6	240	0%	0	12	32	2	5	2	53
Silica Reagent-Set, 0.010-1.600 mg/L sio2	Set	6	240	0%	0	12	32	2	5	2	53
Reagent set, for sulfide	Set	6	240	0%	0	12	32	2	5	2	53
Lead reagent set, 5-150 µg/L Pb	Set	4	160	0%	0	8	21	1	3	2	35
Sodium/Potassium Ionic Strength Adjustor (ISA) Powder Pillows, pk/100	Set	6	240	0%	0	12	32	2	5	2	53
Reagent set, Potassium 0-7,0 mg/L 100 tests	Set	4	160	0%	0	8	21	1	3	2	35
Reagent set, Potassium 0-7,0 mg/L 100 tests	Set	4	160	0%	0	8	21	1	3	2	35
Reagent set, Potassium 0-7,0 mg/L 100 tests	Set	4	160	0%	0	8	21	1	3	2	35
Total Chlorine Reagent Powder Pillows, DPD (pk/100)	Set	10	400	0%	0	20	53	3	8	4	88
Chlorine, free PP, 100/pkg (DPD) 25 ml sample	Set	10	400	0%	0	20	53	3	8	4	88
Aluminium std soln, 10mg/l, 100ml	Set	2	92	0%	0	5	12	1	2	1	20

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Full face mask, medium	Pcs	10	1,650	20%	330	99	260	12	33	17	751
Standard Methods for the Examination of Water and Wastewater (AWWA)	Pcs	2	1,436	5%	72	75	198	11	29	14	399
Computer Set	Pc	1	1,572	5%	79	83	217	12	0	16	405
Printer	Pc	1	596	20%	119	36	94	4	0	6	259
TOTALS			55,872,972		6183511	2406368	6316716	419047	439010	558730	16,323,382

CERTIFICATE

TOTAL TAX LIABILITY= EUROS 16,323,382

This is to certify that the assessment given is true and correct.

Signature:.....

Importer/Agent's Name & Designation:.....

For Official Use

Assessment rechecked and found correct and complete. **GHANA REVENUE AUTHORITY**
 Signature: *[Signature]* GIDEON GLEY
 Date: 10-05-2021
CUSTOMS DIVISION
ACCRA
 (SNR REV. OFFICER)

