

Contract #202-2019/20



GOVERNMENT OF BELIZE
MINISTRY OF WORKS
BELMOPAN



**SIXTH ROAD
(COASTAL HIGHWAY UPGRADING)
PROJECT**

**CONSULTANCY SERVICES
FOR THE
ENGINEERING SUPERVISION**

**PHASE 2
CONSTRUCTION &
POST-CONSTRUCTION SERVICES**

 POLITECNICA

DECEMBER 2019

Ref: Ministry of Finance: C/IOR/1/41/19 (30) Vol. I dated 4 December 2019
Ref: Solicitor General: LEM/3/01/19 (50) dated 2 December 2019

Consultant's Services

Time-Based

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CONTRACT FOR CONSULTANT'S SERVICES
Time-Based

Project Name: Sixth Road (Coastal Highway Upgrading) Project
Financing Agreement No.: Loan No. 27/SFR-OR-BZE
Grant No. GA 66/BZE

Contract No.: 202-2019/20

between

Government of Belize
Ministry of Works
Belmopan

and

Politecnica Ingegneria ed Architettura Societa Cooperativa

Date: December 2019

I. Form of Contract

TIME-BASED

This CONTRACT (hereinafter called the "Contract") is made the 2 December 2019, between, on the one hand, the Ministry of Works - Government of Belize (hereinafter called the "Client") and, on the other hand, Politecnica Ingegneria ed Architettura Societa Cooperativa (hereinafter called the "Consultant").

WHEREAS

- (a) the Client has requested the Consultant to provide certain consulting services as defined in the General Conditions of this Contract (hereinafter called the "Services");
- (b) the Consultant, having represented to the Client that it has the required professional skills, expertise and technical resources, has agreed to provide the Services on the terms and conditions set forth in this Contract;
- (c) the Client has received financing from the Caribbean Development Bank and the United Kingdom Caribbean Infrastructure Partnership Fund ("Bank") toward the cost of the Services and intends to apply a portion of the proceeds of this financing to eligible payments under this Contract, it being understood that (i) payments by the Bank will be made only at the request of the Client and upon approval by the Bank; (ii) such payments will be subject, in all respects, to the terms and conditions of the Financing Agreement, including prohibitions of withdrawal from the Loan/Grant account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by the decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations; and (iii) no party other than the Client shall derive any rights from the Financing Agreement or have any claim to the proceeds of the financing;

NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract:
 - (a) The General Conditions of Contract (including Attachment 1 "Bank Policy – Corrupt and Fraudulent Practices);
 - (b) The Special Conditions of Contract;

(c) Appendices:

- Appendix A: Description of Services
- Appendix B: Reporting Requirements
- Appendix C: Experts and Sub-Consultants – Hours of Work for Key Experts
- Appendix D: Remuneration Cost Estimates
- Appendix E: Reimbursable Cost Estimates
- Appendix F: Duties of the Client
- Appendix G: Form of Advance Payments Guarantee

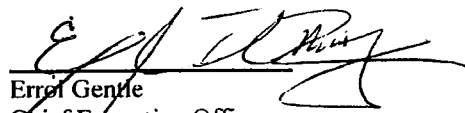
In the event of any inconsistency between the documents, the following order of precedence shall prevail: the Special Conditions of Contract; the General Conditions of Contract, including Attachment 1; Appendix A; Appendices B and F; Appendix D and Appendix E; Appendix C. Any reference to this Contract shall include, where the context permits, a reference to its Appendices.

2. The mutual rights and obligations of the Client and the Consultant shall be as set forth in the Contract, in particular:

- (a) the Consultant shall carry out the Services in accordance with the provisions of the Contract; and
- (b) the Client shall make payments to the Consultant in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

For and on behalf of the Ministry of Works - Government of Belize


 Errol Gentle
 Chief Executive Officer
 Ministry of Works

For and on behalf of Politecnica Ingegneria ed Architettura Societa Cooperativa


 Enea Sermasi
 Special Attorney & Authorized Signatory of Politecnica Ingegneria ed Architettura Societa Cooperativa

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II. General Conditions of Contract

1. GENERAL PROVISIONS

1.1 Definitions

Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

- (a) "Applicable Guidelines" means the Guidelines for the Selection and Engagement of Consultants by Recipients of CDB Financing dated October 2011 or the CDB's Guidelines for Procurement dated January 2006 or as either may be revised from time to time by the Bank.
- (b) "Applicable Law" means the laws and any other instruments having the force of law in the Client's country, or in such other country as may be specified in the **Special Conditions of Contract (SCC)**, as they may be issued and in force from time to time.
- (c) "Bank" means the Caribbean Development Bank.
- (d) "Client" means the Ministry of Works of the Government of Belize that signs the Contract for the Services with the Selected Consultant.
- (e) "Coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party.
- (f) "Collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including influence improperly the actions of another party.
- (g) "Consultant" means a legally-established professional consulting firm or entity selected by the Client to provide the Services under the signed Contract.
- (h) "Contract" means the legally binding written agreement signed between the Client and the Consultant and which includes all the attached documents listed in its Clause 1 (the General Conditions (GCC), the Special Conditions (SCC), and the Appendices).
- (i) "Corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence

improperly the actions of another party.

- (j) "Day" means a working day unless indicated otherwise.
- (k) "Effective Date" means the date on which this Contract comes into force and effect pursuant to Clause GCC 2.1.
- (l) "Fraudulent practice" is an act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit to avoid an obligation;
- (m) "Expert" means, collectively, Key Experts, Non-key Experts, or any other personnel of the Consultant, Sub-consultant or JV member(s) assigned by the Consultant to perform the Services or any part thereof under the Contract.
- (n) "Financing Agreement" means the legal instrument signed by CDB and the Recipient governing the terms of the Financing for the Project.
- (o) "Foreign Currency" means any currency other than the currency of the Client's country.
- (p) "GCC" means these General Conditions of Contract.
- (q) "Government" means the government of the Client's country.
- (r) "Joint Venture (JV)" means an association with or without a legal personality distinct from that of its members, of more than one entity where one member has the authority to conduct all businesses for and on behalf of any and all the members of the JV, and where the members of the JV are jointly and severally liable to the Client for the performance of the Contract.
- (s) "Key Expert(s)" means an individual professional whose skills, qualifications, knowledge and experience are critical to the performance of the Services under the Contract and whose Curricula Vitae (CV) was taken into account in the technical evaluation of the Consultant's proposal.
- (t) "Local Currency" means the currency of the Client's country.
- (u) "Non-key Expert(s)" means an individual professional provided by the Consultant or its Sub-consultant to perform the Services or any part thereof under the Contract

(v) "Party" means the Client or the Consultant, as the case may be, and "Parties" means both of them.

(w) "Recipient" means the entity signing the Financing Agreement with CDB for a Project

(x) "SCC" means the Special Conditions of Contract by which the GCC may be amended or supplemented but not over-written.

(y) "Services" means the work to be performed by the Consultant pursuant to this Contract, as described in Appendix A hereto.

(z) "Sub-consultants" means an entity to whom/which the Consultant subcontracts any part of the Services while remaining solely liable for the execution of the Contract.

(aa) "Third Party" means any person or entity other than the Government, the Client, the Consultant or a Sub-consultant.

**1.2 Relationship
Between the
Parties**

Nothing contained herein shall be construed as establishing a relationship of master and servant or of principal and agent as between the Client and the Consultant. The Consultant, subject to this Contract, has complete charge of the Experts and Sub-consultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.

**1.3 Law Governing
Contract**

This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the Applicable Law.

1.4 Language

This Contract has been executed in the language specified in the SCC, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.

1.5 Headings

The headings shall not limit, alter or affect the meaning of this Contract.

1.6 Communications

1.6.1 Any communication required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent to such Party at the address specified in the SCC.

1.6.2 A Party may change its address for notice hereunder by giving the other Party any communication of such change to

the address specified in the SCC.

- 1.7 Location** The Services shall be performed at such locations as are specified in Appendix A hereto and, where the location of a particular task is not so specified, at such locations, whether in the Government's country or elsewhere, as the Client may approve.
- 1.8 Authority of Member in Charge** In case the Consultant is a Joint Venture the members hereby authorize the member specified in the SCC to act on their behalf in exercising all the Consultant's rights and obligations towards the Client under this Contract, including without limitation the receiving of instructions and payments from the Client.
- 1.9 Authorized Representatives** Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the Client or the Consultant may be taken or executed by the officials specified in the SCC.
- 1.10 Corrupt and Fraudulent Practices** The Bank requires compliance with its policy in regard to corrupt, fraudulent or prohibited practices as set forth in **Attachment 1** to the GCC.
- 1.10.1 Commissions and Fees** The Client requires the Consultant to disclose any commissions or fees that may have been paid or are to be paid to agents, representatives, commission agents or any other party with respect to the selection process or execution of the Contract. The information disclosed must include at least the name and address of the agent, representative, or commission agent, the amount and currency, and the purpose of the commission or fee. Failure to disclose such commissions and gratuities may result in termination of the Contract.

2. COMMENCEMENT, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT

- 2.1 Effectiveness of Contract** This Contract shall come into force and effect on the date (the "Effective Date") of the Client's notice to the Consultant instructing the Consultant to begin carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, listed in the SCC have been met.

- 2.2 Termination of Contract for Failure to Become Effective** If this Contract has not become effective within such time period after the date of Contract signature as specified in the SCC, either Party may, by not less than twenty one (21) days written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.
- 2.3 Commencement of Services** The Consultant shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.
- 2.4 Expiration of Contract** Unless terminated earlier pursuant to Clause GCC 2.9 hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.
- 2.5 Entire Agreement** This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.
- 2.6 Modifications or Variations**
- (a) Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. Pursuant to Clause GCC 2.7.2 hereof, however, each Party shall give due consideration to any proposals for modification or variation made by the other Party.
 - (b) In cases of substantial modifications or variations and those that have cost implications, the prior written consent of the Bank is required.
- 2.7 Force Majeure**
- 2.7.1 Definition**
- (a) For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible. The circumstances, and subject to those requirements, includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action, confiscation or any other action by Government agencies.
 - (b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such

Party's Experts, Sub-consultants or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected to both take into account at the time of the conclusion of this Contract, and avoid or overcome in the carrying out of its obligations hereunder.

- (c) Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

2.7.2 No Breach of Contract

The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

2.7.3 Measures to be Taken

- (a) A Party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall take all reasonable measures to minimize the consequences of any event of Force Majeure.
- (b) A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any case not later than fourteen (14) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give written notice of the restoration of normal conditions as soon as possible.
- (c) Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
- (d) During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultant, upon instructions by the Client, shall either:
 - (i) demobilize, in which case the Consultant shall be reimbursed for additional costs they reasonably and necessarily incurred, and, if required by the Client, in reactivating the Services; or
 - (ii) continue with the Services to the extent reasonably possible, in which case the Consultant shall continue to be paid under the terms of this Contract and be reimbursed for additional costs reasonably and

necessarily incurred.

- (e) In the case of disagreement between the Parties as to the existence or extent of Force Majeure, the matter shall be settled according to Clause GCC 8.

2.8 Suspension

The Client may, by written notice of suspension to the Consultant, suspend all payments to the Consultant hereunder if the Consultant fails to perform any of its obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall request the Consultant to remedy such failure within a period not exceeding thirty (30) calendar days after receipt by the Consultant of such notice of suspension.

2.9 Termination

This Contract may be terminated by either Party as per provisions set up below:

2.9.1 By the Client

The Client may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (f) of this Clause. In such an occurrence the Client shall give at least thirty (30) calendar days' written notice of termination to the Consultant in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e); and at least five (5) calendar days' written notice in case of the event referred to in (f):

- (a) If the Consultant fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clause GCC 2.8;
- (b) If the Consultant becomes (or, if the Consultant consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;
- (c) If the Consultant fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GCC 8 hereof;
- (d) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;
- (e) If the Client, in its sole discretion and for any reason

whatsoever, decides to terminate this Contract;

- (f) If the Consultant fails to confirm availability of Key Experts as required in Clause GCC 2.3.

Furthermore, if the Client determines that the Consultant has engaged in corrupt, fraudulent, collusive, or coercive practices, in competing for or in executing the Contract, then the Client may, after giving 14 calendar days written notice to the Consultant, terminate the Consultant's employment under the Contract.

2.9.2 By the Consultant

The Consultant may terminate this Contract, by not less than thirty (30) days' written notice to the Client, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

- (a) If the Client fails to pay any money due to the Consultant pursuant to this Contract and not subject to dispute pursuant to Clause GCC8 within forty-five (45) calendar days after receiving written notice from the Consultant that such payment is overdue.
- (b) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.
- (c) If the Client fails to comply with any final decision reached as a result of arbitration pursuant to Clause GCC 8 hereof.
- (d) If the Client is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Consultant may have subsequently approved in writing) following the receipt by the Client of the Consultant's notice specifying such breach.

2.9.3 Cessation of Rights and Obligations

Upon termination of this Contract pursuant to Clauses GCC 2.2 or GCC 2.9 hereof, or upon expiration of this Contract pursuant to Clause GCC 2.4, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, (ii) the obligation of confidentiality set forth in Clause GCC 3.3, (iii) the Consultant's obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GCC 3.6, and (iv) any right which

a Party may have under the Applicable Law.

2.9.4 Cessation of Services

Upon termination of this Contract by notice of either Party to the other pursuant to Clauses GCC 2.9.1 or GCC 2.9.2, the Consultant shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Consultant and equipment and materials furnished by the Client, the Consultant shall proceed as provided, respectively, by Clauses GCC 3.8 and GCC 3.9.

2.9.5 Payment upon Termination

Upon termination of this Contract pursuant to Clauses GCC 2.9.1 or GCC 2.9.2, the Client shall make the following payments to the Consultant:

- (a) remuneration pursuant to Clause GCC 6 hereof for Services satisfactorily performed prior to the effective date of termination, and reimbursable expenditures pursuant to Clause GCC 6 hereof for expenditures actually incurred prior to the effective date of termination; and
- (b) in the case of termination pursuant to paragraphs (d) and (e) of Clause GCC 2.9.1, reimbursement of any reasonable cost incidental to the prompt and orderly termination of this Contract, including the cost of the return travel of the Experts.

3. OBLIGATIONS OF THE CONSULTANT

3.1 General

3.1.1 Standard of Performance

- (a) The Consultant shall perform the Services and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Consultant shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Client, and shall at all times support and safeguard the Client's legitimate interests in any dealings with the Third Parties.
- (b) The Consultant shall employ and provide such qualified and experienced Experts and Sub-consultants as are required to carry out the Services.

(c) The Consultant may subcontract part of the Services to an extent and with such Experts and Sub-consultants as may be approved in advance by the Client. Notwithstanding such approval, the Consultant shall retain full responsibility for the Services.

**3.1.2 Law
Applicable to
Services**

The Consultant shall perform the Services in accordance with the Contract and the Applicable Law and shall take all practicable steps to ensure that any Sub-consultants, as well as the Experts of the Consultant and any Sub-consultants, comply with the Applicable Law.

Throughout the execution of the Contract, the Consultant shall comply with the import of goods and services prohibitions in the Client's country when:

(a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country; or

(b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Recipient's Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.

The Client shall notify the Consultant in writing of relevant local customs, and the Consultant shall, after such notification, respect such customs.

**3.2 Conflict of
Interests**

The Consultant shall hold the Client's interests paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests.

**3.2.1 Consultant
Not to
Benefit from
Commissions,
Discounts, etc.**

(a) The payment of the Consultant pursuant to Clause GCC 6 shall constitute the Consultant's only payment in connection with this Contract and, subject to Clause GCC 3.2.2, the Consultant shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or in the discharge of its obligations hereunder, and the Consultant shall use its best efforts to ensure that any Sub-consultants, as well as the Experts and agents of either of them, similarly shall not receive any such additional payment.

(b) Furthermore, if the Consultant, as part of the Services, has the responsibility of advising the Client on the procurement of goods, works or services, the Consultant shall comply with the Bank's Applicable Guidelines, and shall at all times exercise such responsibility in the best interest of the Client. Any

discounts or commissions obtained by the Consultant in the exercise of such procurement responsibility shall be for the account of the Client.

- 3.2.2 Consultant and Affiliates Not to Engage in Certain Activities** The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-consultants and any entity affiliated with such Sub-consultants, shall be disqualified from providing goods, works or non-consulting services resulting from or directly related to the Consultant's Services for the preparation or implementation of the project, unless otherwise indicated in the SCC.
- 3.2.3 Prohibition of Conflicting Activities** The Consultant shall not engage, and shall cause its Experts as well as its Sub-consultants not to engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this Contract.
- 3.2.4 Strict Duty to Disclose Conflicting Activities** The Consultant has an obligation and shall ensure that its Experts and Sub-consultants shall have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Client, or that may reasonably be perceived as having this effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract.
- 3.3 Confidentiality** Except with the prior written consent of the Client, the Consultant and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and the Experts make public the recommendations formulated in the course of, or as a result of, the Services.
- 3.4 Liability of the Consultant** Subject to additional provisions, if any, set forth in the SCC, the Consultant's liability under this Contract shall be provided by the Applicable Law.
- 3.5 Insurance to be Taken out by the Consultant** The Consultant (i) shall take out and maintain, and shall cause any Sub-consultants to take out and maintain, at its (or the Sub-consultants', as the case may be) own cost but on terms and conditions approved by the Client, insurance against the risks, and for the coverage specified in the SCC, and (ii) at the Client's request, shall provide evidence to the Client showing that such insurance has been taken out and maintained and that the current premiums therefor have been paid. The Consultant shall ensure that such insurance is in place prior to commencing the Services as specified in GCC 2.3.
- 3.6 Accounting, Inspection and** 3.6.1 The Consultant shall keep, and cause its Sub-consultants to keep, accurate and systematic accounts and records in respect of the

- Auditing** Services, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify relevant time changes and costs.
- 3.6.2. The Consultant shall permit and shall cause its Sub-consultants to permit, the Bank and/or persons appointed by the Bank to inspect the site and/or all accounts and records relating to the performance of the Contract and the submission of the Proposal to provide the Services, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Consultant is advised that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under this Sub-Clause 3.6 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility under the Bank's prevailing sanctions procedures.)
- 3.7 Reporting Obligations** The Consultant shall submit to the Client the reports and documents specified in Appendix B hereto, in the form, in the numbers and within the time periods set forth in the said Appendix.
- 3.8 Proprietary Rights of the Client in Reports and Records**
- (a) Unless otherwise indicated in the SCC, all reports and relevant data and information such as maps, diagrams, plans, databases, other documents and software, supporting records or material compiled or prepared by the Consultant for the Client in the course of the Services shall be confidential and become and remain the property of the Client. The Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Client, together with a detailed inventory thereof. The Consultant may retain a copy of such documents, data and/or software but shall not use the same for purposes unrelated to this Contract without prior written approval of the Client.
- (b) If license agreements are necessary or appropriate between the Consultant and third parties for purposes of development of the plans, drawings, specifications, designs, databases, other documents and software, the Consultant shall obtain the Client's prior written approval to such agreements, and the Client shall be entitled at its discretion to require recovering the expenses related to the development of the program(s) concerned. Other restrictions about the future use of these documents and software, if any, shall be specified in the SCC.
- 3.9 Equipment, Vehicles and Materials**
- (a) Equipment, vehicles and materials made available to the Consultant by the Client, or purchased by the Consultant wholly or partly with funds provided by the Client, shall be the property of the Client and shall be marked accordingly. Upon termination or

expiration of this Contract, the Consultant shall make available to the Client an inventory of such equipment, vehicles and materials and shall dispose of such equipment, vehicles and materials in accordance with the Client's instructions. While in possession of such equipment, vehicles and materials, the Consultant, unless otherwise instructed by the Client in writing, shall insure them at the expense of the Client in an amount equal to their full replacement value.

(b) Any equipment or materials brought by the Consultant or its Experts into the Client's country for the use either for the project or personal use shall remain the property of the Consultant or the Experts concerned, as applicable.

4. CONSULTANT'S EXPERTS AND SUB-CONSULTANTS

- 4.1 Description of Key Experts**
- (a) The title, agreed job description, minimum qualification and estimated period of engagement in the carrying out of the Services of each of the Consultant's Key Experts are described in Appendix C.
 - (b) If required to comply with the provisions of Clause GCC 3.1.1, adjustments with respect to the estimated periods of engagement of Key Experts set forth in **Appendix C** may be made by the Consultant by a written notice to the Client, provided (i) that such adjustments shall not alter the originally estimated period of engagement of any individual by more than 10% or one week, whichever is larger; and (ii) that the aggregate of such adjustments shall not cause payments under this Contract to exceed the ceilings set forth in Clause GCC 6.1(b).
 - (c) If additional work is required beyond the scope of the Services specified in **Appendix A**, the estimated periods of engagement of Key Experts set forth in **Appendix C** may be increased by agreement in writing between the Client and the Consultant. In case where payments under this Contract exceed the ceilings set forth in Clause GCC 6.1(b), the Parties shall sign a Contract amendment.
- 4.2 Replacement of Key Experts**
- (a) Except as the Client may otherwise agree in writing, no changes shall be made in the Key Experts.
 - (b) Notwithstanding the above, the substitution of Key Experts during Contract execution may be considered only based on the Consultant's written request and due to circumstances

outside the reasonable control of the Consultant, including but not limited to death or medical incapacity. In such case, the Consultant shall forthwith provide as a replacement, a person of equivalent or better qualifications and experience, and at the same rate of remuneration.

4.3 Approval of Additional Key Experts

If during execution of the Contract, additional Key Experts are required to carry out the Services, the Consultant shall submit to the Client for review and approval a copy of their Curricula Vitae (CVs). If the Client does not object in writing (stating the reasons for the objection) within twenty-one (21) days from the date of receipt of such CVs, such additional Key Experts shall be deemed to have been approved by the Client. The rate of remuneration payable to new Key Experts shall be based on the rates for other Key Expert positions which require similar qualifications and experience.

4.4 Removal of Experts or Sub-consultants

- (a) If the Client finds that any of the Experts or Sub-consultants has committed serious misconduct or has been charged with having committed a criminal action, or shall the Client determine that Consultant's Expert or Sub-consultant have engaged in corrupt, fraudulent, collusive, coercive practice while performing the Services, the Consultant shall, at the Client's written request, provide a replacement.
- (b) In the event that any of Key Experts, Non-Key Experts or Sub-consultants is found by the Client to be incompetent or incapable in discharging assigned duties, the Client, specifying the grounds therefore, may request the Consultant to provide a replacement.
- (c) Any replacement of the removed experts or Sub-consultants shall possess equivalent or better qualifications and experience and shall be acceptable to the Client.

4.5 Replacement/ Removal of Experts – Impact on Payments

- (a) Except as the Client may otherwise agree, (i) the Consultant shall bear all additional travel and other costs arising out of or incidental to any removal and/or replacement, and (ii) the remuneration to be paid for any of the Experts provided as a replacement shall not exceed the remuneration which would have been payable to the Experts replaced or removed.

4.6 Working Hours, Overtime, Leave, etc.

- (a) Working hours and holidays for Experts are set forth in **Appendix C**. To account for travel time to/from the Client's country, experts carrying out Services inside the Client's country shall be deemed to have commenced or finished work

in respect of the Services such number of days before their arrival in, or after their departure from, the Client's country as is specified in **Appendix C**.

- (b) The Experts shall not be entitled to be paid for overtime nor to take paid sick leave or vacation leave except as specified in **Appendix C**, and the Consultant's remuneration shall be deemed to cover these items.
- (c) Any taking of leave by Key Experts shall be subject to the prior approval by the Consultant who shall ensure that absence for leave purposes will not delay the progress and or impact adequate supervision of the Services.

5. OBLIGATIONS OF THE CLIENT

5.1 Assistance and Exemptions

Unless otherwise specified in the SCC, the Client shall use its best efforts to:

- (a) Assist the Consultant with obtaining work permits and such other documents as shall be necessary to enable the Consultant to perform the Services.
- (b) Assist the Consultant with promptly obtaining, for the Experts and, if appropriate, their eligible dependents, all necessary entry and exit visas, residence permits, exchange permits and any other documents required for their stay in the Client's country while carrying out the Services under the Contract.
- (c) Facilitate prompt clearance through customs of any property required for the Services and of the personal effects of the Experts and their eligible dependents.
- (c) Issue to officials, agents and representatives of the Government all such instructions and information as may be necessary or appropriate for the prompt and effective implementation of the Services.
- (d) Assist the Consultant and the experts and any Sub-consultants employed by the Consultant for the Services with obtaining exemption from any requirement to register or obtain any permit to practice their profession or to establish themselves either individually or as a corporate entity in the Client's country according to the applicable law in the Client's country.
- (e) Assist the Consultant, any Sub-consultants and the experts of

either of them with obtaining the privilege, pursuant to the applicable law in the Client's country, of bringing into the Client's country reasonable amounts of foreign currency for the purposes of the Services or for the personal use of the experts and of withdrawing any such amounts as may be earned therein by the experts in the execution of the Services.

- (f) Provide to the Consultant any such other assistance as may be specified in the SCC.

5.2 Access to Project Site

The Client warrants that the Consultant shall have, free of charge, unimpeded access to the project site in respect of which access is required for the performance of the Services. The Client will be responsible for any damage to the project site or any property thereon resulting from such access and will indemnify the Consultant and each of the experts in respect of liability for any such damage, unless such damage is caused by the willful default or negligence of the Consultant or any Sub-consultants or the Experts of either of them.

5.3 Change in the Applicable Law Related to Taxes and Duties

If, after the date of this Contract, there is any change in the applicable law in the Client's country with respect to taxes and duties which increases or decreases the cost incurred by the Consultant in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amounts specified in Clause GCC 6.1(b).

5.4 Services, Facilities and Property of the Client

- (a) The Client shall make available to the Consultant and the experts, for the purposes of the Services and free of any charge, the services, facilities and property described in **Appendix F** at the times and in the manner specified in said **Appendix F**.

- (b) In case that such services, facilities and property shall not be made available to the Consultant as and when specified in **Appendix F**, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Consultant for the performance of the Services, (ii) the manner in which the Consultant shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Consultant as a result thereof pursuant to Clause GCC 6.1(c).

5.5 Payment

In consideration of the Services performed by the Consultant under this Contract, the Client shall make such payments to the Consultant and in such manner as is provided by Clause GCC 6.

**5.6 Counterpart
Personnel**

- (a) The Client shall make available to the Consultant free of charge such professional and support counterpart personnel, to be nominated by the Client, with the Consultant's advice if specified in **Appendix F**.
- (b) If counterpart personnel are not provided by the Client to the Consultant as and when specified in **Appendix F**, the Client and the Consultant shall agree on (i) how the affected part of the Services shall be carried out, and (ii) the additional payments, if any, to be made by the Client to the Consultant as a result thereof pursuant to Clause GCC 6.1(c).
- (c) Professional and support counterpart personnel, excluding Client's liaison personnel, shall work under the exclusive direction of the Consultant. If any member of the counterpart personnel fails to perform adequately any work assigned to such member by the Consultant that is consistent with the position occupied by such member, the Consultant may request the replacement of such member, and the Client shall not unreasonably refuse to act upon such request.

6. PAYMENTS TO THE CONSULTANT

- 6.1 Cost Estimates; Ceiling Amount**
- (a) An estimate of the cost of the Services in foreign and local currencies is set forth in **Appendix D** (Remuneration) and **Appendix E** (Reimbursable expenses).
 - (b) Payments under this Contract shall not exceed the ceilings in foreign currency and in local currency specified in the **SCC**.
 - (c) For any payments in excess of the ceilings specified in GCC 6.1(b), an amendment to the Contract shall be signed by the Parties referring to the provision of this Contract that evokes such amendment.
- 6.2 Remuneration and Reimbursable Expenses**
- (a) The Client shall pay to the Consultant (i) remuneration that shall be determined on the basis of time actually spent by each Expert in the performance of the Services after the date of commencing of Services or such other date as the Parties shall agree in writing; and (ii) reimbursable expenses that are actually and reasonably incurred by the Consultant in the performance of the Services.
 - (b) All payments shall be at the rates set forth in **Appendix D** and **Appendix E**.
 - (c) Unless the **SCC** provides for the price adjustment of the remuneration rates, said remuneration shall be fixed for the duration of the Contract.
 - (d) The remuneration rates shall cover: (i) such salaries and allowances as the Consultant shall have agreed to pay to the Experts as well as factors for social charges and overheads (bonuses or other means of profit-sharing shall not be allowed as an element of overheads), (ii) the cost of backstopping by home office staff not included in the Experts' list in **Appendix C**, (iii) the Consultant's profit, and (iv) any other items as specified in the **SCC**.
 - (e) Any rates specified for Experts not yet appointed shall be provisional and shall be subject to revision, with the written approval of the Client, once the applicable remuneration rates and allowances are known.
- 6.3 Taxes and Duties**
- (a) The Consultant, Sub-consultants and Experts are responsible for meeting any and all tax liabilities arising out of the Contract unless it is stated otherwise in the **SCC**.
 - (b) As an exception to the above, all local identifiable indirect taxes

(itemized and finalized at Contract negotiations) reimbursed to the Consultant or paid by the Client on behalf of the Consultant are stated in the SCC.

6.4 Currency of Payment

Any payment under this Contract shall be made in the currency(ies) specified in the SCC.

6.5 Mode of Billing and Payment

Billings and payments in respect of the Services shall be made as follows:

- (a) Advance payment. Within the number of days after the Effective Date specified in the SCC, the Client shall pay to the Consultant an advance payment as specified in the SCC. Unless otherwise indicated in the SCC, an advance payment shall be made against an advance payment bank guarantee acceptable to the Client in an amount (or amounts) and in a currency (or currencies) specified in the SCC. Such guarantee (i) is to remain effective until the advance payment has been fully set off, and (ii) is to be in the form set forth in **Appendix G**, or in such other form as the Client shall have approved in writing. The advance payment will be set off by the Client in equal installments against the statements for the number of months of the Services specified in the SCC until said advance payment have been fully set off.
- (b) The Itemized Invoices. As soon as practicable and not later than fifteen (15) days after the end of each calendar month during the period of the Services, or after the end of each time interval otherwise indicated in the SCC, the Consultant shall submit to the Client, in duplicate, itemized invoices, accompanied by the receipts or other appropriate supporting documents, of the amounts payable pursuant to Clauses GCC 6.4 and GCC 6.5 for such interval, or any other period indicated in the SCC. Separate invoices shall be submitted for expenses incurred in foreign currency and in local currency. Each invoice shall show remuneration and reimbursable expenses separately.
- (c) The Client shall pay the Consultant's invoices within sixty (60) days after the receipt by the Client of such itemized invoices with supporting documents. Only such portion of an invoice that is not satisfactorily supported may be withheld from payment. Should any discrepancy be found to exist between actual payment and costs authorized to be incurred by the Consultant, the Client may add or subtract the difference from any subsequent payments. Interest at the annual rate specified in the SCC shall become payable as from the above due date on

any amount due by, but not paid on, such due date.

- (d) The Final Payment. The final payment under this Clause shall be made only after the final report and a final invoice, identified as such, shall have been submitted by the Consultant and approved as satisfactory by the Client. The Services shall be deemed completed and finally accepted by the Client and the final report and final invoice shall be deemed approved by the Client as satisfactory ninety (90) calendar days after receipt of the final report and final invoice by the Client unless the Client, within such ninety (90) calendar day period, gives written notice to the Consultant specifying in detail deficiencies in the Services, the final report or final invoice. The Consultant shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated. Any amount that the Client has paid or has caused to be paid in accordance with this Clause in excess of the amounts payable in accordance with the provisions of this Contract shall be reimbursed by the Consultant to the Client within thirty (30) days after receipt by the Consultant of notice thereof. Any such claim by the Client for reimbursement must be made within twelve (12) calendar months after receipt by the Client of a final report and a final invoice approved by the Client in accordance with the above.
- (e) All payments under this Contract shall be made to the accounts of the Consultant specified in the SCC.
- (f) With the exception of the final payment under (d) above, payments do not constitute acceptance of the Services nor relieve the Consultant of any obligations hereunder.

7. FAIRNESS AND GOOD FAITH

7.1 Good Faith

The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

8. SETTLEMENT OF DISPUTES

8.1 Amicable Settlement

(a) The Parties shall seek to resolve any dispute amicably by mutual consultation.

(b) If either Party objects to any action or inaction of the other Party, the objecting Party may file a written Notice of Dispute to the other

Party providing in detail the basis of the dispute. The Party receiving the Notice of Dispute will consider it and respond in writing within 14 days after receipt. If that Party fails to respond within 14 days, or the dispute cannot be amicably settled within 14 days following the response of that Party, Clause GCC 8.2 shall apply.

**8.2 Dispute
Resolution**

Any dispute between the Parties arising under or related to this Contract that cannot be settled amicably may be referred by either Party to adjudication/arbitration in accordance with the provisions specified in the SCC.

II. General Conditions

Attachment 1: Bank's Policy – Corrupt and Fraudulent Practices

1. It is CDB's policy to require that Recipients (including beneficiaries of the Financing), as well as bidders, suppliers (including suppliers of consulting services), and contractors under CDB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, CDB:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
 - (ii) "fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
 - (iii) "collusive practices" means a scheme or arrangement between two or more bidders, with or without the knowledge of the Recipient, designed to establish bid prices at artificial, non-competitive levels; and
 - (iv) "coercive practices" means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract.
- (b) will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the contract in question;
- (c) will normally cancel the portion of the Financing allocated to a contract if it determines at any time that representatives of the Recipient or of a beneficiary of the Financing engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the Recipient having taken timely and appropriate action satisfactory to CDB to remedy the situation;
- (d) will sanction a body corporate or individual, including declaring the body corporate or individual ineligible, either indefinitely or for a stated period of time, to be awarded a CDB-financed contract if it at any time determines that the body corporate or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for, or in executing, a CDB-financed contract; and
- (e) will have the right to require that a provision be included in bidding documents and in contracts financed by the Financing, requiring bidders, suppliers and contractors to permit CDB to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by CDB.

2. With the specific agreement of CDB, a Recipient may introduce, into the RFP for contracts financed by CDB, a requirement that the consultant include in the proposal an undertaking by the consultant to observe, in competing for and executing a contract, the country's laws against fraud and corruption (including bribery), as listed in the RFP¹. CDB will accept the introduction of such a requirement at the request of the Recipient's country, provided the arrangements governing such undertaking are satisfactory to CDB.

¹As an example, such an undertaking might read as follows: "We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will observe the laws against fraud and corruption in force in the country of the Client, as such laws have been listed by the Client in the RFP for this contract."

III. Special Conditions of Contract

Number of GC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
1.1(b)	Belize
1.3	The Contract shall be construed in accordance with the law of Belize
1.4	The language is: English
1.6	<p>The addresses are:</p> <p>Client : Chief Executive Officer Ministry of Works - Government of Belize</p> <p>Attention : Mr. Evondale Moody Fax : +501-822-0563 E-mail : peumow@yahoo.com</p> <p>Consultant : Mr. Enea Sermasi Politecnica Ingegneria ed Architettura Societa Cooperativa</p> <p>Attention : Mr. Alessio Gori Fax : +39-059-356-087 E-mail : agori@politecnica.it</p>
1.8	N/A
1.9	<p>The Authorized Representatives are:</p> <p>For the Client: Evondale Moody - Project Coordinator</p> <p>For the Consultant: Alessio Gori – Contract Manager</p>
2.1	<p>The conditions of effectiveness of the contract are the following:</p> <ol style="list-style-type: none"> (1) Client's approval of Consultant's Technical and Financial Proposal for the appointment of the specified Key Experts. (2) Approval of the Contract Agreement by the Funding Agency (CDB).

	(3) Payment of the Advance Payment to the Consultant by the Client, if required.
2.2	The time period shall be 28 days
2.3	The number of days shall be 21 days Confirmation of Key Experts availability to start the assignment shall be submitted to the Client in writing as a written statement signed by each Key Expert.
2.4	The time period shall be 48 months, this includes 12 months post construction activities for the defects notification period.
2.9.1(a)	The time period shall be 14 days
3.2.2	The Client reserves the right to determine on a case-by-case basis whether the Consultant should be disqualified from providing goods, works or non-consulting services due to a conflict of a nature described in Clause GCC 21.1.3 Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

3.4	<p>“3.4 Limitation of the Consultant’s Liability towards the Client</p> <p>(a) Except in case of gross negligence or willful misconduct on the part of the Consultant or on the part of any person or firm acting on behalf of the Consultant in carrying out the Services, the Consultant, with respect to damage caused by the Consultant to the Client’s property, shall not be liable to the Client:</p> <p>(i) for any indirect or consequential loss or damage; and</p> <p>(ii) for any direct loss or damage that exceeds two times the total value of the Contract;</p> <p>(b) This limitation of liability shall not</p> <p>(i) affect the Consultant’s liability, if any, for damage to Third Parties caused by the Consultant or any person or firm acting on behalf of the Consultant in carrying out the Services;</p> <p>(ii) be construed as providing the Consultant with any limitation or exclusion from liability which is prohibited by the Applicable Law.”</p>
3.5	<p>The risks and the coverage shall be as follows:</p> <p>(a) Professional liability insurance, with a minimum coverage of USD\$2.64M (United States Dollars);</p> <p>(b) employer’s liability and workers’ compensation insurance in respect of the experts and Sub-consultants in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Experts, any such life, health, accident, travel or other insurance as may be appropriate; and</p> <p>(c) insurance against loss of or damage to (i) equipment purchased in whole or in part with funds provided under this Contract, (ii) the Consultant’s property used in the performance of the Services, and (iii) any documents prepared by the Consultant in the performance of the Services.</p>
3.8	N/A
6.1(b)	<p>The ceiling in foreign currency is:</p> <p>\$2,540,000.00 USD for the 36-months construction period</p> <p>\$100,000.00 USD for the 12-months defect notification period</p> <p>exclusive of local indirect taxes.</p>

	<p>The ceiling in local currency is: N/A exclusive of local indirect taxes.</p> <p>Any indirect local taxes chargeable in respect of this Contract for the Services provided by the Consultant shall "be exempted" or "reimbursed" by the Client to the Consultant.</p>
6.2(c)	Price adjustment on the remuneration: <i>does not apply</i>
6.3	<p>The Client warrants that the Consultant, the Sub-consultants and the experts shall be exempt from the payment of all indirect local taxes which includes General Sales Tax (GST - 12.5%), Business Income Tax for Companies (6%), and PAYE Tax (25%) for Foreign Nationals. All local Key Experts and Non-Key Experts will be required to pay indirect local taxes.</p> <p>the Client shall reimburse the Consultant, the Sub-consultants and the experts</p> <p>any indirect taxes, duties, fees, levies and other impositions imposed, under the applicable law in the Client's country, on the Consultant, the Sub-consultants and the experts in respect of:</p> <ul style="list-style-type: none"> (a) any payments whatsoever made to the Consultant, Sub-consultants and the experts (other than nationals or permanent residents of the Client's country), in connection with the carrying out of the Services; (b) any equipment, materials and supplies brought into the Client's country by the Consultant or Sub-consultants for the purpose of carrying out the Services and which, after having been brought into such territories, will be subsequently withdrawn by them; (c) any equipment imported for the purpose of carrying out the Services and paid for out of funds provided by the Client and which is treated as property of the Client; (d) any property brought into the Client's country by the Consultant, any Sub-consultants or the Experts (other than nationals or permanent residents of the Client's country), or the eligible dependents of such experts for their personal use and which will subsequently be withdrawn by them upon their respective departure from the Client's country, provided that: <ul style="list-style-type: none"> (1) the Consultant, Sub-consultants and experts shall follow the usual customs procedures of the Client's country in importing property into the Client's country; and (2) if the Consultant, Sub-consultants or Experts do not withdraw but dispose of any property in the Client's country upon which customs duties and taxes have been exempted, the Consultant, Sub-consultants or Experts, as the case may be, (i) shall bear such customs duties and taxes in conformity with the regulations of the Client's country, or (ii) shall reimburse them to the Client if they

	were paid by the Client at the time the property in question was brought into the Client's country.																																																																																	
6.4	The currencies of payment shall be the following: United States Dollars (USD)																																																																																	
6.5(a)	The following provisions shall apply to the advance payment and the advance payment bank guarantee: (1) An advance payment of \$254,000.00 United States Dollars shall be made within 30 days after the Effective Date. The advance payment will be set off by the Client in equal installments of \$25,400.00 USD/Month against the statements for the first 10 months of the Services until the advance payment has been fully set off. (2) The advance payment guarantee shall not be required.																																																																																	
6.5(b)	The Consultant shall submit to the Client itemized invoices on a monthly basis according to the table below: <table border="1"> <thead> <tr> <th colspan="3">For the 36-months construction period (Activity 2)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Remuneration Ceiling (as per FIN3)</td> <td>USD 2.327.070,00</td> </tr> <tr> <td>B</td> <td>Reimbursable Ceiling (as per FIN4)</td> <td>USD 212.930,00</td> </tr> <tr> <td>C</td> <td>Total Ceiling</td> <td>USD 2.540.000,00</td> </tr> <tr> <td>D= A * 0,1</td> <td>Advance Payment</td> <td>USD 254.000,00</td> </tr> <tr> <td colspan="3">Breakdown calculation for Invoices from #1 to #10</td> </tr> <tr> <td>E=F+G</td> <td>Total for Remuneration Component</td> <td>USD 39.240,83</td> </tr> <tr> <td>F=A/36</td> <td>Remuneration for monthly instalment</td> <td>USD 64.640,83</td> </tr> <tr> <td>G= - D/10</td> <td>Monthly Setoff for advanced payment</td> <td>-USD 25.400,00</td> </tr> <tr> <td>H=J+...+L</td> <td>Total for Reimbursable Component</td> <td>USD to be defined</td> </tr> <tr> <td>J</td> <td>Actual reimbursable #... from FIN4 list</td> <td>USD to be defined</td> </tr> <tr> <td>...</td> <td>Actual reimbursable #... from FIN4 list</td> <td>USD to be defined</td> </tr> <tr> <td>K</td> <td>Actual reimbursable #... from FIN4 list</td> <td>USD to be defined</td> </tr> <tr> <td>L=E+H</td> <td>Total for each invoice (#1 to 10)</td> <td>USD</td> </tr> <tr> <td colspan="3">Breakdown calculation for Invoices from #11 to #36</td> </tr> <tr> <td>E=F+G</td> <td>Total for Remuneration Component</td> <td>USD 64.640,83</td> </tr> <tr> <td>F=A/36</td> <td>Remuneration for monthly instalment</td> <td>USD 64.640,83</td> </tr> <tr> <td>G=0</td> <td>Monthly Setoff for advanced payment</td> <td>USD 0,00</td> </tr> <tr> <td>H=J+...+L</td> <td>Total for Reimbursable Component</td> <td>USD to be defined</td> </tr> <tr> <td>J</td> <td>Actual reimbursable #... from FIN4 list</td> <td>USD to be defined</td> </tr> <tr> <td>...</td> <td>Actual reimbursable #... from FIN4 list</td> <td>USD to be defined</td> </tr> <tr> <td>K</td> <td>Actual reimbursable #... from FIN4 list</td> <td>USD to be defined</td> </tr> <tr> <td>L=E+H</td> <td>Total for each invoice (#11 to 36)</td> <td>USD</td> </tr> <tr> <th colspan="3">For the 12-months Defect notification Period (Activity 3)</th> </tr> <tr> <td>M</td> <td>Total Ceiling</td> <td>USD 100.000,00</td> </tr> <tr> <td colspan="3">Breakdown calculation for Invoices from #37 to #40</td> </tr> <tr> <td>N=M/4</td> <td>Total for each invoice (#37 to 40)</td> <td>USD 25.000,00</td> </tr> </tbody> </table>	For the 36-months construction period (Activity 2)			A	Remuneration Ceiling (as per FIN3)	USD 2.327.070,00	B	Reimbursable Ceiling (as per FIN4)	USD 212.930,00	C	Total Ceiling	USD 2.540.000,00	D= A * 0,1	Advance Payment	USD 254.000,00	Breakdown calculation for Invoices from #1 to #10			E=F+G	Total for Remuneration Component	USD 39.240,83	F=A/36	Remuneration for monthly instalment	USD 64.640,83	G= - D/10	Monthly Setoff for advanced payment	-USD 25.400,00	H=J+...+L	Total for Reimbursable Component	USD to be defined	J	Actual reimbursable #... from FIN4 list	USD to be defined	...	Actual reimbursable #... from FIN4 list	USD to be defined	K	Actual reimbursable #... from FIN4 list	USD to be defined	L=E+H	Total for each invoice (#1 to 10)	USD	Breakdown calculation for Invoices from #11 to #36			E=F+G	Total for Remuneration Component	USD 64.640,83	F=A/36	Remuneration for monthly instalment	USD 64.640,83	G=0	Monthly Setoff for advanced payment	USD 0,00	H=J+...+L	Total for Reimbursable Component	USD to be defined	J	Actual reimbursable #... from FIN4 list	USD to be defined	...	Actual reimbursable #... from FIN4 list	USD to be defined	K	Actual reimbursable #... from FIN4 list	USD to be defined	L=E+H	Total for each invoice (#11 to 36)	USD	For the 12-months Defect notification Period (Activity 3)			M	Total Ceiling	USD 100.000,00	Breakdown calculation for Invoices from #37 to #40			N=M/4	Total for each invoice (#37 to 40)	USD 25.000,00
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6.5(c)	The interest rate is: 10% per Annum (Central Bank of Belize)
6.5(e)	<p>The accounts are:</p> <p>for foreign currency:</p> <ul style="list-style-type: none"> • Account's Holder: Politecnica Ingegneria ed Architettura Societa Cooperativa • Bank Name: Banca Popolare dell'Emilia Romagna • Agency ID: Agenzia 5 • Iban: IT50H0538712916000000012922 • Swift Code: BPMOIT22XXX <p>for local currency: Not Applicable</p>
8.2	<p>Disputes shall be settled by arbitration in accordance with the following provisions:</p> <p>1. <u>Selection of Arbitrators.</u> Each dispute submitted by a Party to arbitration shall be heard by a sole arbitrator or an arbitration panel composed of three (3) arbitrators, in accordance with the following provisions:</p> <p>(a) Where the Parties agree that the dispute concerns a technical matter, they may agree to appoint a sole arbitrator or, failing agreement on the identity of such sole arbitrator within thirty (30) days after receipt by the other Party of the proposal of a name for such an appointment by the Party who initiated the proceedings, either Party may apply to the Federation Internationale des Ingenieurs-Conseil (FIDIC) of Lausanne, Switzerland for a list of not fewer than five (5) nominees and, on receipt of such list, the Parties shall alternately strike names therefrom, and the last remaining nominee on the list shall be the sole arbitrator for the matter in dispute. If the last remaining nominee has not been determined in this manner within sixty (60) days of the date of the list, Federation Internationale des Ingenieurs-Conseil (FIDIC) shall appoint, upon the request of either Party and from such list or otherwise, a sole arbitrator for the matter in dispute.</p> <p>(b) Where the Parties do not agree that the dispute concerns a technical matter, the Client and the Consultant shall each appoint one (1) arbitrator, and these two arbitrators shall jointly appoint a third arbitrator, who shall chair the arbitration panel. If the arbitrators named by the Parties do not succeed in appointing a third arbitrator within thirty</p>

	<p>(30) days after the latter of the two (2) arbitrators named by the Parties has been appointed, the third arbitrator shall, at the request of either Party, be appointed by the Secretary General of the Permanent Council of Arbitration, the Hague.</p>
	<p>(c) If, in a dispute subject to Clause SCC 8.2 1.(b), one Party fails to appoint its arbitrator within thirty (30) days after the other Party has appointed its arbitrator, the Party which has named an arbitrator may apply to the Secretary General of the Permanent Council of Arbitration, the Hague to appoint a sole arbitrator for the matter in dispute, and the arbitrator appointed pursuant to such application shall be the sole arbitrator for that dispute.</p> <p>2. <u>Rules of Procedure.</u> Except as otherwise stated herein, arbitration proceedings shall be conducted in accordance with the rules of procedure for arbitration of the United Nations Commission on International Trade Law (UNCITRAL) as in force on the date of this Contract.</p> <p>3. <u>Substitute Arbitrators.</u> If for any reason an arbitrator is unable to perform his/her function, a substitute shall be appointed in the same manner as the original arbitrator.</p> <p>4. <u>Nationality and Qualifications of Arbitrators.</u> The sole arbitrator or the third arbitrator appointed pursuant to paragraphs (a) through (c) of Clause SCC 8.2 shall be an internationally recognized legal or technical expert with extensive experience in relation to the matter in dispute and shall not be a national of the Consultant's home country "or of the home country of any of their members or Parties" or of the Government's country. For the purposes of this Clause, "home country" means any of:</p> <p>(a) the country of incorporation of the Consultant; or</p> <p>(b) the country in which the Consultant's principal place of business is located; or</p> <p>(c) the country of nationality of a majority of the Consultant's shareholders; or</p> <p>(d) the country of nationality of the Sub-consultants concerned, where the dispute involves a subcontract.</p>

	<p>5. <u>Miscellaneous</u>. In any arbitration proceeding hereunder:</p> <ul style="list-style-type: none">(a) proceedings shall, unless otherwise agreed by the Parties, be held in Washington, D.C., U.S.A.(b) the English language shall be the official language for all purposes; and(c) the decision of the sole arbitrator or of a majority of the arbitrators (or of the third arbitrator if there is no such majority) shall be final and binding and shall be enforceable in any court of competent jurisdiction, and the Parties hereby waive any objections to or claims of immunity in respect of such enforcement.
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IV. Appendices

APPENDIX A – DESCRIPTION OF SERVICES

TERMS OF REFERENCE

1. **BACKGROUND**

1.01 The Coastal Highway is currently considered a distributor or secondary road and provides an alternative link for vehicles travelling between the northern and southern districts. The 59 km gravel road connects the George Price Highway (at Mile 30 and the village of La Democracia) to the Hummingbird Highway (at Mile 9 and the village of Hope Creek). The route of the roadway is mostly low lying and has inadequate drainage. It passes through the Central Belize Jaguar Corridor and the Manatee Forest Reserves, which are protected areas. There are two villages along the corridor, Gales Point Manatee and Mullins River¹³, which are located approximately 1.5 km and 3 km respectively off the Highway. Economic activity in these villages is primarily fishing and subsistence farming. There are 20 existing timber, steel and reinforced concrete single and dual-lane bridges along the road, with spans ranging from 5 to 64 metres. A feasibility study completed in 2000 and updated in 2018, identified that upgrading the road would generate significant economic benefits associated with reduced travel times and the opening up of new opportunities for agricultural and tourism developments.

2. **OBJECTIVE**

2.01 The objective of this consultancy is to assist the Government of Belize (GOBZ) in the tendering process necessary for the procurement of a contractor, project management of the road works, inclusive of contractor supervision and contract administration throughout the project implementation process, inclusive of the defects liability period. The consultancy would also be responsible for post-construction reporting.

3. **SCOPE OF WORK**

3.01 The consultant(s) shall be solely responsible for the timely completion of reports; and the effectiveness of contractor supervision.

3.02 The tasks will include, but not be limited to:

- (a) assisting GOBZ during the Prequalification and Tender Period. This includes the evaluation of prequalification documents, conducting a site visit with tenderers, responding [through the Ministry of Works (MOW)] to queries raised by tenderers during the Bid Period, evaluating tender submissions and presenting a comprehensive Tender Evaluation Report with recommendations to MOW, who will lead the negotiation process with the first-ranked contractor and providing assistance with

¹³ With populations of approximately 250 and 100 respectively.

establishing a contract with the contractor.

- (b) carrying out the supervision services related to the construction of Coastal Road Upgrading Project which consists of; the upgrading of approximately 59km of existing gravel road between the northern and southern districts of Belize. The road connects the George Price Highway near Mile 30 and La Democracia Village to the Hummingbird Highway at Mile 9. The project also includes upgrading the drainage system by constructing new higher capacity culverts. Refurbishment to four existing bridges and the construction of six new bridges, including associated abutments, piers, decking, approach roads and embankments. The project will be packaged into two Lots.
 - (i) Lot 1 will comprise civil works inclusive of the construction of new bridges and maintenance of existing bridges between Democracia Village at km 0+000 and including Soldier Creek Bridge at km 28+163).
 - (ii) Lot 2 will comprise civil works inclusive of the construction of new bridges and the maintenance of existing bridges after Soldier Creek Bridge at km 28+163 and Hope Creek Village at km 58+041).
- (c) assigning an experienced Resident Engineer, acceptable to the MOW, together with the necessary site staff as shall be approved in writing by the Employer. The Resident Engineer will be responsible for reporting directly to, and coordinating with, the Project Execution Unit, MOW, assigned to the Project;
- (d) representing the interest of GOBZ *vis-à-vis* the Contractor in any matter related to the construction contract and the proper execution thereof;
- (e) furnishing for the use of the Contractors, all necessary ground and topographic controls for the establishment of road alignments and grades including work area limits for quarries, haul roads, etc.;
- (f) reviewing and recommending for approval, the Contractor's work schedule or revisions thereto including a critical path diagram for the construction of the Project and any such plans or programmes that the Contractor is obliged to furnish for the Engineer's approval. The consultant(s) shall also prepare an initial disbursement schedule based on the approved work schedule;
- (g) assessing the adequacy of all inputs such as equipment, materials and labour provided by the Contractor and his methods of work in relation to the required rate of progress and, when required, take appropriate action in order to expedite progress. The consultant(s) shall also keep and regularly update a list of the Contractor's equipment (and its working condition) to ensure compliance with the list of equipment which he pledged in his bid;
- (h) inspecting and evaluating all Contractor installations, housing, shops and warehouses, and other accommodations to ensure compliance with the terms and conditions of contract documents;
- (i) examining and making recommendations on all claims from the Contractor for time extension, extra compensations, work or expenses, or other similar matters;
- (j) negotiating new rates with the Contractor for additional work and making requisite recommendations for approval, should the rates set out in the contract not be applicable;

- (k) certifying work done for payment and determining the amount to be added to, or deducted from, payments to the Contractor for any additional work or work omitted;
- (l) computing quantities of approved and accepted work and materials, and checking and certifying the Contractor's monthly and final payment certificates. The consultant(s) shall also maintain up-to-date records of remaining quantities to be incorporated in the work, and the cost estimates relating thereto, broken down into local and foreign components;
- (m) arranging the execution of works related to the provisional sums in the construction contract and determining the value of such works within the scope of the said contract;
- (n) monthly reporting on the progress of works, the Contractor's performance, quality of works and the Project's financial status and forecasts. Monthly reports must be prepared and transmitted to the Ministry showing quantities incorporated in the work at the end of each pay period, and also showing monies earned by and due to the contractor(s);
- (o) proposing and presenting for approval any changes in the plans deemed necessary for the completion of works including information or any effect the changes may have on the contract amount and the time of completion of the Project, and prepare all necessary Variation Orders including altering plans and specifications and other details. Inform the employer of problems or potential problems which might arise in connection with any construction contract and make recommendations for possible solutions;
- (p) maintaining an approved representative at the site during all times the Contractor is working, to supervise the work and to issue instructions, as required;
- (q) furnishing timely assistance and direction to contractors in all matters related to interpretation of the contract documents, ground survey controls, quality control testing, and other matters relating to contract and progress of the Project;
- (r) organising the supervision of the works with proper allocation of responsibilities to the individual inspectors and supervise their work in order to ensure that it is effectively executed;
- (s) compiling systematic records of the inspector's findings and what actions have been implemented as a result thereof;
- (t) preparing and maintaining inspection and engineering reports and records to adequately document the progress and performance of the works;
- (u) reviewing all Contractor's working drawings, shop drawings, erection drawings, and drawings for temporary works, and act as appropriate thereon;
- (v) performing verification surveys of the Contractor's initial stake-out surveys for centreline alignment, structures location surveys and vertical control bench marks; performing initial cross-section and periodic and final survey measurements of completed and accepted works or partial works to determine quantities; and performing settlement control;

- (w) ensuring the receipt of, and maintaining as permanent records, all warranties required under terms of the contract documents for materials and equipment accepted and incorporated in the Project. All local materials incorporated in the Project, and their source, are also to be recommended for approval. Ensure that as-built drawings shall be prepared for all works as the work progresses;
- (x) The consultant(s) shall take the necessary steps to oversee that all test samplings are carried out in the field and perform such tests as can be made in the field laboratory arranged by the Contractor, to maintain quality control based on the specified standards. The consultant(s) shall be responsible for all testing and shall notify the contractor(s) of any defects in his work and stop operations connected with the defective works until the defects are rectified;
- (y) inspecting the safety and environmental protection aspects of construction works, including the implementation of the Environmental and Social Management Plan as prepared by the design consultants, and methods to ensure that every reasonable measure has been taken to protect life, environment and property, and ensure that traffic circulation and proper detours are provided by the Contractor at all times;
- (z) participating in an inspection of the works, made jointly by representatives of GOBZ and the Contractor, upon 97% completion of the works and following a written request of the Contractor. Should the works prove to be substantially complete, the consultant(s) will assist in preparing the Certificate of Substantial Completion to be signed by the members of the inspection team. Should the works not be acceptable, the Contractor shall be informed in writing of the items that need to be rectified;
- (aa) when in the opinion of the inspection team, works are considered substantially complete but there remain outstanding works to be completed by the Contractor, the consultant(s) will assist in ensuring that the Contractor signs a Certificate of Outstanding Work, before the Recommendation of Substantial Completion becomes effective;
- (bb) performing any and all other items of works not specifically mentioned above, but which are necessary and essential to successfully supervise and control the construction activities in accordance with the plans, specifications and terms of contract. The consultant's responsibility for the site supervision of the works shall continue until the Contractor has completed all outstanding works to the satisfaction of GOBZ; and
- (cc) carrying out the necessary inspection, specifying and supervising any remedial works to be carried out as well as participating in the final inspection and preparing the Recommendation of Final Acceptance with its effective date, to be signed by all members of the inspecting team.

4. **REPORTING REQUIREMENTS AND DELIVERABLES**

4.01 The Consultant(s) shall provide the following documents and reports to MOW:

- (a) **Progress Reports:** By the tenth (10th) day of each month submit 12 copies of a Monthly Progress Report in the approved form, briefly and concisely describing all construction activities and progress for the previous month, and report on environmental monitoring during construction. Problems encountered, or problems anticipated, shall be clearly stated, together with steps taken or recommendations for their correction. These reports

shall also list the Contractor's equipment and work force disaggregated by sex and age. It will also indicate the work to be performed during the coming month, expenditure record, provide quality cost projections to the end of the project and current estimates of final cost and completion date.

- (b) **Final Report:** Within 2 months of the issue of the certificate of practical completion, prepare a Final Report on construction of the Project, summarising the construction activities, contract changes, claims or disputes or any other substantive matters having an effect on the amount, cost and progress of the work. The number of copies of this report will be 12.
- (c) **As-Built Drawings and Site Documents:** Within one month of the issue of the certificate of practical completion provide GOBZ with one full size set (Arch D size) of 'as-built' reproducible plans on stable-base material showing final details of the Project as completed, together with all data, records, field books etc., properly indexed and catalogued.

4.02 Comments on the Reports should be anticipated within four weeks of receipt and the Consultant(s) will adjust the reports according to the comments received. The consultant will revise the draft reports within one month of receipt and in accordance with the comments received.

5. IMPLEMENTATION ARRANGEMENTS

5.01 GOBZ has appointed a Project Coordinator (PC). The PC will facilitate the work of the consultant(s) and make available all relevant studies, reports and data, relevant to the completion of the exercise and will act as liaison between the consultant(s), GOBZ officials, and stakeholders.

6. QUALIFICATIONS AND EXPERIENCE

6.01 The consulting team should consist of persons having the appropriate professional and academic qualifications and a minimum of 10 years relevant experience in the areas of highway/transportation engineering, structural/bridge engineering, soils and materials engineering, environmental specialisation, social specialisation, and construction supervision. Post Graduate qualifications in the required fields as well as specific experience in the Caribbean will be an asset.

6.02 It is the consultant's responsibility to ensure that their team has an appropriate mix of key and non-key experts to satisfy the requirement of the TOR.

7. DURATION

7.01 The planned completion period for the construction works is 36 months, this will be followed a Defects Liability period of 12 months which will require part-time input from the consultancy service. The consultant will also be required to assist the GOBZ in the tendering process for procurement of the contractor. The total duration of the consultancy service is not expected to exceed 52 months.

8. **COMMENTS BY THE CONSULTANT(S)**

8.01 The Consultant(s) are requested to make comments on, and suggestions for, improvements to these Terms of Reference. The financial implications, if any, of these recommendations should be indicated separately in the Financial Proposal.

APPENDIX B - REPORTING REQUIREMENTS

1. REPORTING REQUIREMENTS AND DELIVERABLES

1.01 The Consultant(s) shall provide the following documents and reports to MOW:

- (a) **Progress Reports:** By the tenth (10th) day of each month submit 12 copies of a Monthly Progress Report in the approved form (electronic and hard copies), briefly and concisely describing all construction activities and progress for the previous month, and report on environmental monitoring during construction. Problems encountered, or problems anticipated, shall be clearly stated, together with steps taken or recommendations for their correction. These reports shall also list the Contractor's equipment and work force disaggregated by sex and age. It will also indicate the work to be performed during the coming month, expenditure record, provide quality cost projections to the end of the project and current estimates of final cost and completion date.
- (b) **Final Report:** Within 2 months of the issue of the certificate of practical completion, prepare a Final Report on construction of the Project, summarising the construction activities, contract changes, claims or disputes or any other substantive matters having an effect on the amount, cost and progress of the work. The number of copies of this report will be 12.
- (c) **As-Built Drawings and Site Documents:** Within one month of the issue of the certificate of practical completion provide GOBZ with one full size set (Arch D size) of 'as-built' reproducible plans on stable-base material showing final details of the Project as completed, together with all data, records, field books etc., properly indexed and catalogued. According to Works Tendering Dossier, the Contractor(s) shall prepare the As Built documents and drawings. The Consultant(s) shall therefore collect, check, review them and have them amended by the Contractor until satisfactory documents are ready to be handed to the Client.

1.02 Comments on the Reports should be anticipated within one week of receipt and the Consultant(s) will adjust the reports according to the comments received. The consultant will revise the draft reports within one week of receipt and in accordance with the comments received.

1.03 Consultant to prepare an independent monthly report for UKCIF. The draft template is to be given to the Consultant by the Ministry.

1.04 Should there be the need to correct, amend, integrate the Design documents for causes such as Clients' change requests, Force Majeure, Contractors' proposals acceptable to Client, Politecnica will propose to the Client - for its approval - such design tasks by submitting a specific offer for the relevant additional design fees, which are not accounted for in the Contract's TOR, being unknown and unforeseeable to date.

APPENDIX C - KEY EXPERTS AND SUB-CONSULTANTS - HOURS OF WORK FOR KEY EXPERTS

C-1

RESIDENT KEY EXPERTS		
KE1	Mr. Phillip Rubin	Team Leader cum Highway Engineer
KE2	Mr. Leo Villamor	Bridge/Structural Engineer cum Deputy
KE3	Mr. Franco Braus	Geotechnical / Soil / Material Engineer
KE4	Mr. Lloyd Tingting	Licensed Land Surveyor
KE5	Ms. Ramy Chia	Site Engineer
KE6	n.a.	n.a.
NON-KEY EXPERTS		
NKE1	Mr. Alessio Gori	Contract Manager cum Road Engineer
NKE2	Mr. Tommaso Conti	Structural Designer
NKE3	Mr. Alessandro Cecchelli	Hydraulic Engineer
NKE4	Mr. Francisco Reina	Claim & Procurement Expert
NKE5	Mr. Valentino Shal	Health Safety Environm. Expert

C-2

- a. The hours of work for Key Experts and Non-Key Experts is 8 hours per day. The standard reference working days are 5 days per week, from Monday to Friday, except national holidays. The standard reference month is made up of 22 standard working days.
- b. Politecnica's Technical and Financial Proposals include for each expert the following work supervision in exceptional circumstances as required by the Project:
 - 10 days of non-standard working days (Sundays, National Holidays) every year
 - 8 hours of night-time working hours every month
- c. Authorized Leave Period for International Resident Experts.
Politecnica's Technical and Financial Proposal indicates that the remunerated leave periods for the international resident experts will be 45 calendar days of authorized leave per expert per year, distributed on the following cycle.
 - Period 1 (120 days): 105 days on site + 15 days of authorized leave.
 - Period 2 (120 days): 105 days on site + 15 days of authorized leave.
 - Period 3 (125 days): 110 days on site + 15 days of authorized leave.
 - Total expert per year: 320 days on site + 45 days of authorized leave
- d. The period for the implementation of the contract is 48 months. The breakdown is as follows:

36 months	-	Contract Supervision
12 months	-	Defects Notification Period

APPENDIX D – REMUNERATION COST ESTIMATES



July 16th, 2019

Transmission via email only to

ceo@mow.gov.bz

peumow@yahoo.com

Ministry of Works
Power Lane, Belmopan -Belize

Attention of: Mr. Errol GENTLE
Chief Executive Officer
ceo@mow.gov.bz

Copy to: Mr. Evondale Moody
Project Coordinator
Email: peunow@yahoo.com

Subject: Sixth Road - Coastal Highway Upgrading Project: Submission of Financial & Technical Offer for "Consultancy Services for the Construction Supervision including Evaluation of Prequalification documents and Selection of contractor(s)" – REVISED PROPOSAL

Dear Mr. Gentle,

With reference to Your kind Letter dated June 10th, 2019 (your ref. PEU/SR/CHUP/ 19 (18)), we are pleased to submit our revised Financial & Technical Offer, that cancels and substitutes the previous one.

We took into account Your considerations and recommendations and we made a deep review of our proposal in order to ensure the Supervision TOR results with a Price in line with MoW's expectations.

We are therefore pleased to inform you that our revised proposal now meets the expected savings as per attached resume.

We remain at Your disposal for any clarifications and look forward to Your positive feedback.

Kind Regards

Mr. Inea Sermasi, Special Attorney and Authorized Representative

POLITECNICA
Ingegneria ed Architettura soc. coop.
220, Via G. Galilei - 41128 MODENA (Italy)
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Special Attorney & Authorized Signatory!

Enclosed:

- Revision 01 - Summary
- Financial & Technical Proposal - REV01



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FORM FIN-1
FINANCIAL PROPOSAL SUBMISSION FORM

Modena (Italy), July 16th, 2019

To: The Chief Executive Officer
Ministry of Works
Power Lane, Belmopan, Cayo District
BELIZE C.A.

Dear Sirs:

We, the undersigned, offer to provide the “Consultancy Services for the Supervision of the construction of the entire works under the Coastal Highway Upgrading Project Road Project, including the evaluation prequalification documents and the selection of contractor(s)” in accordance with your Request for Proposal dated June 6th 2019 (your ref. PEU/SR/CHUP/19 (09) and our Proposal in Annex.

Our attached Financial Proposal is for the amount of:

- Phase 1: Pre-Construction Services: **USD 60,000.00** (sixty thousand/00 US DOLLARS)

PLUS

- Phase 2: Construction & Post- Construction Services, conditional to the Award of the Works: **USD 2,640,000.00** (two million six hundred forty thousand/00 US DOLLARS)

excluding all indirect local taxes. The estimated amount of local indirect taxes is an amount which shall be confirmed or adjusted, if needed, during negotiations.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to 90 days from the date of our Proposal.

No commissions, gratuities or fees have been or are to be paid by us to agents or any other party relating to this Proposal and Contract execution.

We understand you are not bound to accept any Proposal you receive.

Yours sincerely,

Authorized Signature

Name and Title of Signatory: Enea Sermasi (Mr.)

In the capacity of: Special Attorney and Authorized Signatory of Politecnica Ingegneria ed Architettura Società Cooperativa

Address: 220 G. Galilei Street, 41126 Modena (Italy)

E-mail: international@politecnica.it

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**FORM FIN-2
Summary**

FIN 2. Summary	Currency	Amount
Pre-Construction Consultancy (Activity 1)		
<i>Consultancy by Politecnica as Non-Resident Firm</i>		
Total Net	USD	60.000
of which for Remuneration	USD	38.150
of which for Reimbursables	USD	21.850
<i>plus Local Tax (GST 12,5% on remuneration)</i>		
	USD	<i>not applicable</i>
<i>Business Income Tax for Companies Resident in Belize (6% on remuneration)</i>		
	USD	<i>not applicable</i>
<i>Withholding tax for Companies non resident in Belize (25% on remuneration)</i>		
	USD	9.538
Total Amount of Financial Proposal including local Taxes for Pre-Construction Consultancy (Activity 1)	USD	69.538
Construction and Post-Construction Consultancy (Activities 2 and 3)		
<i>Consultancy Conditional to the Award of the Works to Contractor(s)</i>		
<i>Consultancy by Politecnica as Registered TaxPayer in Belize</i>		
Sub total for Activity 2: Construction Supervision & Contract Administration	USD	2.540.000
of which for Remuneration	USD	2.327.070
of which for Reimbursables	USD	212.930
Sub total for Activity 3: Post-construction Activities	USD	100.000
of which for Remuneration	USD	54.500
of which for Reimbursables	USD	45.500
Total for Financial Proposal for Activity 1 + Activity 2 (NET)	USD	2.640.000
of which for Remuneration	USD	2.381.570
of which for Reimbursables	USD	258.430
<i>GST Tax (12,5% on remuneration)</i>		
	USD	297.696
<i>Business Income Tax for Companies Resident in Belize (6% on remuneration)</i>		
	USD	142.894
<i>Withholding tax for Companies non resident in Belize (25% on remuneration)</i>		
	USD	-
Total Amount of Financial Proposal including local Taxes for Activity 1 + Activity 2	USD	3.080.590

FORM FIN-3 (continued)
Remuneration

Activity 2: Construction Supervision & Contract Administration							403	USD	2.327.070
ID	Name	Position	home/ site	Man- Months	Remuneration per month	Total Amount USD			
RESIDENT KEY EXPERTS							128,8		USD 1.259.600
KE1	Mr. Phillip Rubin	Team leader cum Highway Engineer	site	36,0	USD 14.000	USD	504.000		
			home	0,0	USD 14.000	USD	-		
KE2	Mr. Leo Villamor	Bridge/Structural Engineer cum Deputy	site	28,0	USD 11.300	USD	316.400		
			home	0,0	USD 11.300	USD	-		
KE3	Mr. Franco Braus	Geotechnical / Soil / Material Engineer	site	18,0	USD 8.000	USD	144.000		
			home	0,0	USD 8.000	USD	-		
KE4	Mr. Lloyd Tingling	Licensed Land Surveyor	site	10,8	USD 7.000	USD	75.600		
			home	0,0	USD 7.000	USD	-		
KE5	Ms. Ramy Chia	Site Engineer	site	36,0	USD 6.100	USD	219.600		
			home	0,0	USD 6.100	USD	-		
KE6	n.a.	n.a.	site	0,0	USD	USD	-		
			home	0,0	USD	USD	-		
NON-KEY EXPERTS							22,3	USD -	USD 163.870
NKE1	Mr. Alessio Gori	Contract Manager cum Road Engineer	site	4,3	USD 10.900	USD	46.870		
			home	0,0	USD 9.900	USD	-		
NKE2	Mr. Tommaso Conti	Structural Designer	site	0,0	USD 9.200	USD	-		
			home	0,0	USD 8.200	USD	-		
NKE3	Mr. Alessandro Cecchelli	Hydraulic Engineer	site	0,0	USD 7.900	USD	-		
			home	0,0	USD 6.900	USD	-		
NKE4	Mr. Francisco Reina	Claim & Procurement Expert	site	0,0	USD 12.300	USD	-		
			home	0,0	USD 11.300	USD	-		
NKE5	Mr. Valentino Shal	Health Safety Environm. Expert	site	18,0	USD 6.500	USD	117.000		
			home	0,0	USD 6.500	USD	-		
NKE6	n.a.	n.a.	site	0,0	USD	USD	-		
			home	0,0	USD	USD	-		
SUPPORT STAFF							252,0	USD -	USD 903.600
S1	belizean national	Structural/Bridge Inspector	site	36,0	USD 4.800	USD	172.800		
			home	0,0	USD 4.800	USD	-		
S2	belizean national	Lab. Technician 1	site	36,0	USD 3.000	USD	108.000		
			home	0,0	USD 3.000	USD	-		
S3	belizean national	Lab. Technician 2	site	36,0	USD 3.000	USD	108.000		
			home	0,0	USD 3.000	USD	-		
S4	belizean national	Assistant Land Surveyor 1	site	36,0	USD 5.000	USD	180.000		
			home	0,0	USD 5.000	USD	-		
S5	belizean national	Assistant Land Surveyor 2	site	0,0	USD	USD	-		
			home	0,0	USD	USD	-		
S6	belizean national	Quantity Inspector	site	0,0	USD	USD	-		
			home	0,0	USD	USD	-		
S7	belizean national	Road Inspector 1	site	36,0	USD 3.400	USD	122.400		
			home	0,0	USD 3.400	USD	-		
S8	belizean national	Road Inspector 2	site	36,0	USD 3.400	USD	122.400		
			home	0,0	USD 3.400	USD	-		
S9	belizean national	Project Secretary	site	36,0	USD 2.500	USD	90.000		
			home	0,0	USD 2.500	USD	-		
S10	n.a.	n.a.	site	0,0	USD	USD	-		
			home	0,0	USD	USD	-		

FORM FIN-3 (continued)
Remuneration

Activity 3: Post Construction activities				5	USD	54.500
ID	Name	Position	home/ site	Man- Months	Remuneration per month	Total Amount USD
RESIDENT KEY EXPERTS				2,90		USD 34.300
KE1	Mr. Phillip Rubin	Team Leader cum Highway Engineer	site	2,0	USD 14.000	USD 28.000
			home	0,0	USD 14.000	USD -
KE2	Mr. Leo Villamor	Bridge/Structural Engineer cum Deputy	site	0,0	USD 11.300	USD -
			home	0,0	USD 11.300	USD -
KE3	Mr. Franco Braus	Geotechnical / Soil / Material Engineer	site	0,0	USD 8.000	USD -
			home	0,0	USD 8.000	USD -
KE4	Mr. Lloyd Tingling	Licensed Land Surveyor	site	0,9	USD 7.000	USD 6.300
			home	0,0	USD 7.000	USD -
KE5	Ms. Ramy Chia	Site Engineer	site	0,0	USD 6.100	USD -
			home	0,0	USD 6.100	USD -
KE6	n.a.	n.a.	site	0,0	USD -	USD -
			home	0,0	USD -	USD -
NON-KEY EXPERTS				2,0	USD -	USD 20.200
NKE1	Mr. Alessio Gori	Contract Manager cum Road Engineer	site	0,4	USD 10.900	USD 4.360
			home	1,6	USD 9.900	USD 15.840
NKE2	Mr. Tommaso Conti	Structural Designer	site	0,0	USD 9.200	USD -
			home	0,0	USD 8.200	USD -
NKE3	Mr. Alessandro Cecchelli	Hydraulic Engineer	site	0,0	USD 7.900	USD -
			home	0,0	USD 6.900	USD -
NKE4	Mr. Francisco Reina	Claim & Procurement Expert	site	0,0	USD 12.300	USD -
			home	0,0	USD 11.300	USD -
NKE5	Mr. Valentino Shal	Health Safety Environm. Expert	site	0,0	USD 6.500	USD -
			home	0,0	USD 6.500	USD -
NKE6	n.a.	n.a.	site	0,0	USD -	USD -
			home	0,0	USD -	USD -
SUPPORT STAFF				0,0	USD -	USD -
S1	belizean national	Structural/Bridge Inspector	site	0,0	USD 4.800	USD -
			home	0,0	USD 4.800	USD -
S2	belizean national	Lab. Technician 1	site	0,0	USD 3.000	USD -
			home	0,0	USD 3.000	USD -
S3	belizean national	Lab. Technician 2	site	0,0	USD 3.000	USD -
			home	0,0	USD 3.000	USD -
S4	belizean national	Assistant Land Surveyor 1	site	0,0	USD 5.000	USD -
			home	0,0	USD 5.000	USD -
S5	belizean national	Assistant Land Surveyor 2	site	0,0	USD -	USD -
			home	0,0	USD -	USD -
S6	belizean national	Quantity Inspector	site	0,0	USD -	USD -
			home	0,0	USD -	USD -
S7	belizean national	Road Inspector 1	site	0,0	USD 3.400	USD -
			home	0,0	USD 3.400	USD -
S8	belizean national	Road Inspector 2	site	0,0	USD 3.400	USD -
			home	0,0	USD 3.400	USD -
S9	belizean national	Project Secretary	site	0,0	USD 2.500	USD -
			home	0,0	USD 2.500	USD -
S10	n.a.	n.a.	site	0,0	USD -	USD -
			home	0,0	USD -	USD -

APPENDIX E – REIMBURSABLE EXPENSES COST ESTIMATES

**FORM FIN-4 (continued)
Reimbursables**

Activity 2: Construction Supervision & Contract Administration (36 months)				Sub Total	USD	212.930
No.	Description	Unit	Quantity	Unit Price	Total Amount USD	
2.1	International flights Economy A/R for European Key and Non Key Experts	A/R Ticket	15	USD 1.500	USD	22.500
2.2	International flights Economy A/R for Non European Key and Non-Key Experts	A/R Ticket	20	USD 2.000	USD	40.000
2.3	Perdiem for Short Term Non-Belizean Experts	Man-calendar day	112	USD 160	USD	17.920
2.4	Company's Office / guesthouse/ accommodation in Belmopan	Month	36	USD 1.000	USD	36.000
2.5	Telephone costs Belize/Belize and Belize/Italy	Month	36	USD 330	USD	11.880
2.6	Editing, Printing, Reproduction of Reports, DHL shipment costs	Month	36	USD 300	USD	10.800
2.7	Cost for Consultant's staff Safety: helmets, shoes, jackets, gloves, mouth protection	Person	15	USD 250	USD	3.750
2.8	Rent of a Car with Driver	Day	36	USD 100	USD	3.600
2.9	Medical Insurance for foreign staff	Man-calendar day	2019	USD 7	USD	14.133
2.10	Mobile Phones, Portable Laptops, softwares, Cameras	lumpsum	1	USD 10.071	USD	10.071
2.11	Administrative/Bank/Legal charges of company's branch office	month	36	USD 300	USD	10.800
2.12	Visa and Working Permit Fees for Team Leader and Deputy Team Leader	Year	3	USD 3.400	USD	10.200
2.13	Contingencies	Month	36	USD 591	USD	21.276

FORM FIN-4 (continued)
Reimbursables

Activity 3: Post Construction activities (12 months)				Sub Total		USD 45,500	
No.	Description	Unit	Quantity	Unit Price	Total Amount USD		
3.1	International flights Economy A/R for European Key and Non-Key Experts	A/R Ticket	2	USD 1,500	USD	3,000	
3.2	International flights Economy A/R for Non-European Key and Non-Key Experts	A/R Ticket	4	USD 2,000	USD	8,000	
3.3	Perdiem for Short Term Non-Belizean Experts	Man-calendar day	76	USD 300	USD	22,800	
3.4	Company's Office / guesthouse/ accommodation in Belmopan	Month	0	USD -	USD	-	
3.5	Telephone costs Belize/Belize and Belize/Italy	Month	12	USD 50	USD	600	
3.6	Editing, Printing, Reproduction of Reports, DHL shipment costs	Lumpsum	1	USD 820	USD	820	
3.7	Cost for Consultant's staff Safety: helmets, shoes, jackets, gloves, mouth protection	Person	0	USD 250	USD	-	
3.8	Rent of a Car with Driver	Day	38	USD 100	USD	3,800	
3.9	Medical Insurance for foreign staff	Man-calendar day	76	USD 7	USD	532	
3.10	Mobile Phones, Portable Laptops, softwares, Cameras	lumpsum	0	USD 10,000	USD	-	
3.11	Administrative/Bank/Legal charges of company's branch office	month	12	USD 100	USD	1,200	
3.12	Visa for Team Leader	Year	1	USD 200	USD	200	
3.13	Contingencies	Month	12	USD 379,00	USD	4,548	

All reimbursable expenses shall be reimbursed at actual cost, unless otherwise explicitly provided in this Appendix, and in no event shall reimbursement be made in excess of the Contract amount.

APPENDIX F - DUTIES OF THE CLIENT**F-1**

According to the Works Tender dossier package, the Contractor will make the following facilities available to the Supervision Consultants during the Construction Phase:

- a) At the Contractor's camp site, 1 Exclusive Consultant's office room with an area of at least 60 sq.mts, complete with suitable furniture, adequate shelves, work desks and seating for at least 6 persons, chilled bottled drinking water facility and access to two (2) suitable bathrooms, with lockable door, in addition to stationery and other consumables (paper, ink, etc.).
- b) Consultant's Office equipped with at least one photocopier machine. Consultant's Office equipped with one Printer for each of the 6 desks.
- c) Computer's Hardware and Software (HW & SW) for each of the 6 desks, such as AutoCad (2016 or newer version) and MS Office (Word, Project, and Excel), office HW & SW consumables, telephone+internet communication devices and relevant telephone/internet bills.
- d) Consultant's Office room equipped with proper lighting and Air Conditioning, availability of Toilet at the site.
- e) Provision of free-of-charge 24/7 utilities for the Supervisor's Office such as: electricity, potable water, fixed internet connection and/or WiFi.
- f) Security of the site compound, by proper provision of gatemen / watchmen, etc., as required to ensure security and Safety of Supervisor's Office & Staff.
- g) Arrangement for cleaning the office.
- h) Nr. 6 cars (4-wheels driven and 4-door pick-up vehicles capable of carrying five (5) people), licensed and comprehensively insured by the Contractor, for the exclusive use of Consultant's staff. The Contractor shall provide fuel, oil, maintenance (regular servicing at the dealership of the supplier, as per the manufactures guidelines) including replacing defective parts, tires and the like, whenever required.
- i) Two lodgement units for accommodation of the Consultant's Resident and Full-time staff with the minimum features as specified in the Works Tender Dossier. Lodgement units shall be located in a safe & urban area in Belmopan.

F-2

Client will provide additional counterpart support staff to assist the Consultant in executing their duties with the following:

- Community Liaison Officer

APPENDIX G - FORM OF ADVANCE PAYMENTS GUARANTEE

Note: See Clause GCC 6.5(a) and Clause SCC 6.5(a).

Bank Guarantee for Advance Payment

_____ [Bank's Name, and Address of Issuing Branch or Office]

Beneficiary: _____ [Name and Address of Client]

Date: _____

ADVANCE PAYMENT GUARANTEE No.: _____

We have been informed that _____ [name of Consultant or a name of the Joint Venture, same as appears on the signed Contract] (hereinafter called "the Consultant") has entered into Contract No. _____ [reference number of the contract] dated _____ with you, for the provision of _____ [brief description of Services] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum of _____ [amount in figures] (_____) [amount in words] is to be made against an advance payment guarantee.

At the request of the Consultant, we _____ [name of bank] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of _____ [amount in figures] (_____) [amount in words]¹ upon receipt by us of your first demand in writing accompanied by a written statement stating that the Consultant are in breach of their obligation under the Contract because the Consultant have used the advance payment for purposes other than toward providing the Services under the Contract.

It is a condition for any claim and payment under this guarantee to be made that the advance payment referred to above must have been received by the Consultant on their account number _____ at _____ [name and address of bank].

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Consultant as indicated in copies of certified monthly statements which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of the monthly payment certificate indicating that the Consultant has made full

¹ The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Client.

repayment of the amount of the advance payment, or on the ___ day of _____, 2____,² whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

[signature(s)]

Note: All italicized text is for indicative purposes only to assist in preparing this form and shall be deleted from the final product.

² *Insert the expected expiration date. In the event of an extension of the time for completion of the Contract, the Client would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Client might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months][one year], in response to the Client's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."*

APPENDIX H – CV'S OF KEY EXPERTS

See Attached

Annex 4

CVs of proposed Key Experts

(FINANCIAL & TECHNICAL PROPOSAL – REVISION 01 - JULY 16TH 2019)



Coastal Road Aerial Photo

CURRICULUM VITAE (CV)

Position Title and No.	K-1 – Team Leader / Highway Engineer
Name of Expert:	Philip Rubin
Date of Birth:	22/09/1953
Country of Citizenship	South Africa

Education: 1978 – National Diploma in Civil Engineering, Cape Technikon (today “Cape Peninsula University of Technology), Cape Town, South Africa.

Employment record relevant to the assignment:

Period	Employing organization and your title/position. Contact info for references	Country	Summary of activities performed relevant to the Assignment
Feb 2017 – Jan 2019	TNM Technology & Management Ltd	Mozambique	Senior Highway Engineer/interim Project Manager for Road Works Supervision
Mar 2012 – Dec 2016.	SAFRICAS Civil Engineers, DR Congo	D.R. Congo	Contracts Administrator for Infrastructure of Bulk Earthworks, Civil Works of Structures, Hydro Power Plant, Tailings Dam Contracts Manager for extension of existing copper mine – civils & earthworks.
Jan 2011 – Feb 2012	TAHAL Consulting Engineers	Ghana	Chief Resident Engineer/ Team Leader for Civil Works Supervision
Oct 2009 – Dec 2010	SAFRICAS Civil Engineers	DR Congo	Technical Director (civils & contract management).
Jun 2006 – Sep 2009	TAHAL Consulting Engineers	Ethiopia	Resident Engineer/ Team Leader for highway construction supervision
Jun 2002 – Jul 2006	Phoenix Engineering and Research Ltd ,Switzerland	East Africa	Resident Engineer/Team Leader, Co-ordinator of civil and design assignments for roads in East Africa
Jun 2002 Sep 1987 -	Derech Eretz Construction JV Eldad Spivak Engineering Consultants, Mili Engineers Project Management, Margolin Brothers Engineers Project Management, UPS Project Management, BSR Engineers Project Management, Ramet Contractors,	Israel	Project Contract Supervision Manager for implementation of section of toll road Project Team Leader for upgrading Allenby road with new utility services & AC concrete asphalt Team Leader for development of all infrastructure and roads in the new suburb of Tel Baruch North; roads, highway Project Resident Engineer for development of new town of Kiryat Savyon and highway between Junctions Segula and Sirkin in Petach Tikva Contracts Resident Engineer for infrastructure and road project in Beersheva Project Section Supervisor of civil works for roads and town development of Pisgat Zeev, Jerusalem. Section Site Construction Manager for the construction of runway and taxiway for airport in Nevitim, Arad, Israel

Language Skills (indicate only languages in which you can work):

English Native Speaker

Detailed Tasks Assigned on Consultant's Team of Experts (ref. Annex 1 - Schedules):

Team Leadership and Construction Supervision Management for:

- Activity 2: Construction Supervision/ Contract Administration
- Activity 3: Post Construction Services

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
<p>Year: February 2017 – present</p> <p>Location: Mozambique</p> <p>Employer : TNM Technology & Management Ltd</p> <p>Position Held: Senior Highway Engineer/ Interim Project Manager</p> <p>Activities Performed: Monitoring Consultant OPRC supervision for TNM Technology & Management Ltd for Supervision Services for construction of 190 km roads and 3 bridges in Gaza Province, Mozambique. Contract No.43/DIPRO/2013. Project ID: PO83325. Financed by International Development Association (IDA). Client: Administracao Nacional de Estradas – ANE.</p> <p>Tasks included:</p> <ul style="list-style-type: none">• Drafting a Quality Assurance Strategy & Associated Manual.• Drafting the Inception Report.• Drafting Minutes of Meetings held with the Employer and Contracting Entities.• Review of all Interim Payment Certificates.• Draft monthly Progress Reports for the Employer.• Review Construction Monthly reports submitted by the Contracting Entities to the MC and the Employer.• Provided timely advice to minimize any potential risks to the Employer by verifying the achievements of all contractual requirements under the works contract within the stipulated time and budget.• Training of MC local support staff.• Review and approve Contracting Entities (CE) work programme, traffic management plan, SHE requirements etc.• To check that the CE has mobilized all plant and equipment committed in his bid.• Checking of design drawings and shop drawings submitted by the Contracting Entities and giving recommendations to the Employer.• Carrying out informal inspections of the Works – quality of the materials used, how implemented and be present during material testing on site or in the CE laboratory.• Carry out formal inspections for the required levels of service.• Check that use of borrow pits have been approved by the local authorities and that they are reinstated after being used.• Attend meetings with the CE with the local communities along the project roads – benefits of the project to the community.• Review and give recommendations to the Employer on claims submitted by the Contracting Entities.• Checking that the Contracting Entities has taken suitable measure with regard to safety and health care of their workers.• Monitoring the environmental and social aspects during construction and gave proposals to the Employer to mitigate environmental protection measures.
<p>Year: October 2014 – December 2016 – project 2</p> <p>Location: Kinsenda Copper Mine, Kasumbalesa, DR Congo</p> <p>Employer: Safricas</p> <p>Position Held: Contracts Manager</p> <p>Activities Performed: Dealing with all contractual issues, drafting reports, logistics, drafting claims, dealing with the Client – Kinsenda Copper Mine and the Consultant DRA</p>

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
<p>Year: March 2012 – September 2014 - project 1</p> <p>Location: Kibali Gold Mine, Doko, DR Congo</p> <p>Employer: Safricas – partner in GPS Joint Venture (Group 5, Protech, Safricas)</p> <p>Position Held: Contracts Manager/Administrator for GPS Joint Venture.</p> <p>Activities Performed: Overseeing all contractual aspects of the Projects co-ordination between the Contractor and Employer, solving HR issues, submission of claims, drafting all reports, logistics, controlling labour payroll, dealing with government inspectors, co-ordinating subcontractors.</p>
<p>Year: January 2011 – February 2012</p> <p>Location: Tema, Ghana</p> <p>Employer: Tahal Consulting Engineers</p> <p>Position Held: Chief Resident Engineer</p> <p>Activities Performed: Overseeing and monitoring the implementation of the earthworks and construction of the leachate treatment facilities. Co-ordination between the client, contractor and consultant's supervisory staff</p>
<p>Year: October 2009 – December 2010</p> <p>Location: Lumbumbashi, Katanga, D.R Congo</p> <p>Employer: Safricas Civil Engineers</p> <p>Position Held: Technical Director of Civil Works</p> <p>Activities Performed: Advising and co-ordinating technical staff, tendering for new projects, issuing claims against clients when necessary. Reorganization of civil division of the company</p>
<p>Year: June 2006 – September 2009</p> <p>Name of the project: Consultancy supervision services for the upgrading of the Shire- Adigoshu road to asphalt concrete (156 km)</p> <p>Location: Ethiopia</p> <p>Client: Ethiopian Roads Authority (ERA)</p> <p>Employer: Tahal Consulting Engineers</p> <p>Position Held: Resident Engineer/ Team Leader</p> <p>Main Project features: Design review and monitoring, inspecting, material testing of works being implemented</p>
<p>Year: 2005-2006 – project 3</p> <p>Name of the assignment or project: Consultancy services for the implementation of physical road safety improvements at identified black spots between Kampala - Jinja and Kampala -Entebbe, Uganda (125 km)</p> <p>Location: Uganda</p> <p>Client: Ministry of Works, Housing and Communication represented by the Road Formation Unit (RAFU).Project funded by the IDA of the World Bank</p> <p>Employer: Phoenix Engineering & Research Limited, Switzerland.</p> <p>Main Project features: Feasibility study on the identified blackspots, detailed engineering design, final design report, preparation of tender documents, bid evaluations and construction supervision.</p> <p>Position Held: Team Leader / Resident Engineer of assignment activities in East Africa.</p> <p>Activities Performed: Co-ordinating the compiling of the final design report, compiling the valuation report for the removal of utilities / services and structures effected by the road improvements, compiling the tender documents to World bank Guidelines, tender assistance, evaluation of contractors bids, day to day office management and co-ordination of technical support</p>
<p>Year: January 2005 – July 2006 – project 2</p> <p>Name of the assignment or project: Consultancy services for the upgrading of the Kampala-Gayaza-Ziobwe roads and the upgrading to pavement (bitumen) standard of the Ziobwe-Wobulenzi roads, Uganda into 2 packages (67 km)</p> <p>Location: Uganda</p> <p>Client: Ministry of Works, Housing and Communication represented by the Road Formation Unit (RAFU). Project funded by the IDA of the World Bank.</p>

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
<p>Employer: Phoenix Engineering & Research Limited, Switzerland.</p> <p>Main Project features: Addendum for the review and update of all tender documents for packages I and II to new World Bank Guidelines.</p> <p>Position Held: Team Leader of assignment activities in East Africa.</p> <p>Activities Performed: Day to day office management, co-ordination of technical support, review and update tender documents, prequalification assessments of contractors, proposals for this assignment</p>
<p>Year: June 2002 – July 2004 - Lot 2</p> <p>Name of the assignment or project: Resealing and blackspots improvement of the Mtuwaliwa-Chake road, Pemba, Zanzibar</p> <p>Location: Island of Pemba, Zanzibar</p> <p>Client: Ministry Of Communications and Transport (MOCT) Zanzibar. Project funded by the World Bank and Government of Tanzania.</p> <p>Employer: Phoenix Engineering & Research Limited, Switzerland.</p> <p>Main Project features: Feasibility studies, detailed engineering design, preparation of tender documents pre-contract negotiations, supervision of the works and final accounts. The road consists of a 25 km carriageway with shoulders finished with asphalt concrete surfacing, drainage ditches, box culverts, ancillary roadworks etc.</p> <p>Position Held: Resident Engineer/Team Leader</p> <p>Activities Performed: Tender assistance, construction supervision of the project for the client. Co-ordination of project team. Preparation of progress reports, holding monthly site meetings, checking monthly interim payment certificates, supervision of testing of materials, checking on workmanship, checking final accounts and quantities. Handing over the project on completion to the client</p>
<p>Year: June 2002- July 2004 – Lot 3</p> <p>Name of the assignment or project: Emergency rehabilitation and resealing of the road section between Chake and airport, Pemba in Zanzibar.</p> <p>Location: Island of Pemba, Zanzibar.</p> <p>Client: Ministry of Communication and Transport (MOCT) Zanzibar. Project funded by the World Bank and Government of Tanzania.</p> <p>Employer: Phoenix Engineering & Research Limited, Switzerland.</p> <p>Main Project features: Preparation of confidential cost estimates and schematic drawings, pre-contract negotiations, construction supervision of the works and final accounts. The road consists of a 10 km carriageway with shoulders finished with asphalt concrete surfacing, drainage ditches, culverts, ancillary roadworks etc.</p> <p>Position Held: Resident Engineer/Team Leader</p> <p>Activities Performed: Preparation of confidential cost estimates and schematic drawings, collection of surveying data, construction supervision of the project for the client. Coordination of project team, holding monthly site meetings, preparation of monthly progress reports, checking monthly interim payment certificates, checking workmanship, supervision of testing of materials, checking final accounts and quantities. Handing over the project on completion to the client</p>
<p>Year: June 2002 – July 2004 – Lot 1</p> <p>Name of the assignment or project: Consulting services for the rehabilitation of the road section between Mkoani and Mtuwaliwa, Pemba, Zanzibar.</p> <p>Location: Island of Pemba, Zanzibar.</p> <p>Client: Ministry of Communication and Transport (MOCT), Zanzibar. Project funded by the IDA of the World Bank.</p> <p>Main Project features: Feasibility study for the rehabilitation/resealing of the road section, detailed engineering design, and preparation of tender documents, precontract negotiations, construction supervision and final accounts. The road consists of a 4 lane dual carriageway and realignment of existing carriageway surfaced with asphalt concrete, sidewalks, island kerbs, sidekerbs, reinforced concrete drainage ditches, culverts, slipways, retaining walls, excavation and backfill between 5 to 18 metres, stabilisation of soil, ancillary roadworks etc.</p> <p>Employer: Phoenix Engineering & Research Limited, Switzerland.</p> <p>Position Held: Resident Engineer/Team Leader.</p>

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
<p>Activities Performed: Pre-contract negotiations, construction supervision including preparation of progress reports, weekly status reports, checking on workmanship and supervision of materials testing, holding monthly site meetings with client and contractor, updating financial forecasts, checking monthly interim payment certificates with quantities. Checking final and approval of final accounts. Handing over the project to the client</p>
<p>Year: May 2001 – June 2002</p> <p>Name of the assignment or project: Design, Construction and Supervision of new Toll Road – Hotzei</p> <p>Location: Israel</p> <p>Client: Ministry of Public Works, Israel.</p> <p>Employer: Derech Eretz Construction Joint Venture, Israel.</p> <p>Main Project features: Detailed engineering design, construction supervision including control of all aspects of construction. Authorising prior use of materials and equipment to be used, contractor's group work training in the quality control procedures and their obligations, coordination of different work activities of contractors and subcontractors, checking workmanship, quality assurance. The road consists of dual carriageway surfaced with asphalt, bridges, and tunnel, retaining walls, reinforced concrete security walls, optic fibre cables for tolls, concrete drainage ditches, box culverts, ancillary roadworks, landscaping, lighting, traffic lights etc.</p> <p>Position Held: Project Contract Section Manager of civil works between the main junctions of Kessem and Eyal.)</p> <p>Activities Performed: Construction supervision of main contractors and subcontractors. Checking of workmanship and coordinating material testing. Compiling non-conformance reports with treatment recommendations. Coordinating and programming different site activities between contractors and subcontractors. Management of all aspects of the projects</p>
<p>Year: February 2000 - April 2001</p> <p>Name of the assignment or project: Consulting services for the rehabilitation/resealing of Allenby street, Tel Aviv, Israel.- Phase I (6km)</p> <p>Location: Tel-Aviv, Israel.</p> <p>Client: Municipality of Tel-Aviv, Israel</p> <p>Employer: Eldad Spivak Engineering Consultants</p> <p>Main Project features: Rehabilitation of one of the oldest streets in Israel. Replacement of all existing infrastructure and utilities including water supply pipes and connections; sewage supply pipes and connections, all electrical ducts, TV ducts, etc, replacement of existing road structure surfaced with asphalt, construction of new sidewalks, erection of traffic lights, road signs, road markings and other ancillary works.</p> <p>Position Held: Contracts Consultants Manager.</p> <p>Activities Performed: Coordination of all activities of the main contractors, subcontractors with representatives of utility companies, local police, resident committees and representatives of the municipality. Organizing different detours for pedestrians and vehicles during construction with the local police as this is a commercial and residential area and certain sections of the roads were to be kept open for supplies and emergencies. Checking on workmanship and supervision of testing of materials-quality assurance. Coordination routine inspections of the works with the designer. Updating financial forecasts</p>
<p>Year: February 1998 – January 2000 – project 1</p> <p>Name of the assignment or project: Consultancy services for the supervision of the construction of public parking areas and resealing of roads for Netevei Ayalon, Tel-Aviv, Israel.</p> <p>Location: Israel</p> <p>Client: Netevei Ayalon/Municipality of Tel-Aviv.</p> <p>Employer: Mili Engineers Project Management.</p> <p>Main Project features: Construction of large public parking areas for vehicles and buses on existing rubbish dump and disposal of contents of rubbish dump. Parking provided to encourage drivers to use public railway and buses in order to alleviate traffic congestion in the city, construction of approach roads, drainage utility pipes and sewage pipes and manholes, sidewalks, traffic lights, street lighting, landscaping etc.,</p> <p>Position Held: Contracts Consultant Supervisor.</p> <p>Activities Performed: Pre-contract negotiations, pre-checking of design drawings. Monitoring and supervision of all aspects of construction, approval of quantities and monthly interim payment certificates.</p>

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
<p>Quality assurance. Approval of final accounts and handing over the works on completion to the client. Coordinating inspection of siteworks with the designer and client</p>
<p>Year: April 1996 – January 2000 – project 2</p> <p>Name of the assignment or project: Consulting services for coordination detailed design and construction supervision of infrastructure, utilities/services and roads of the development of new suburb “Tel Baruch North”, Tel Aviv, Israel.</p> <p>Location: Israel</p> <p>Client: Municipality of Tel-Aviv, Israel.</p> <p>Employer: Mili Engineers Project Management representing the Israel Land Authority.</p> <p>Main Project features: Coordination of the planning and design of new upper class suburb of Tel Aviv consisting of high rise buildings, houses, parks, crèches, shopping center. Assisting the client in precontract negotiations. Coordinating all infrastructure activities while development of high rise buildings and houses were in progress by outside developers. Coordinating the tunneling under 8 lane highway and railway tracks in order to connect the sewage and drainage pipes to the main supply lines, checking workmanship – quality assurance.</p> <p>Position Held: Resident Engineer</p> <p>Activities Performed: Review of design drawings and bidding documents. Coordination of all work activities on site of contractors, subcontractors, utility companies. Routine checking of workmanship and testing of materials for quality assurance, coordinating meetings with clients, designers, contractors, utilities companies, local police and the developers of high rise building and houses, checking and approval of monthly interim payment certificates, approval of final accounts and section handovers to client</p>
<p>Year: November 1993 - February 1996 – project 1</p> <p>Name of the assignment or project: Consulting services for the supervision of infrastructure, utilities/services, parks, roads and houses of the new suburb of Kiryat Savyonim, Israel.</p> <p>Location: Israel</p> <p>Client: Municipality of Yehud, Israel</p> <p>Employer: Margolin Brothers Engineers Project Management representing the developers – Africa Israel Construction, Israel.</p> <p>Main Project features: Overseeing and coordination of all new infrastructure, utilities/services, roads, Yitzchak Rabin Park and the supervision of construction of roads for houses being constructed.</p> <p>Position Held: On Site Project Co-ordinator/Team Leader for infrastructure and utilities/services, roads and construction of the Late Prime Minister Yitzchak Rabin Park.</p> <p>Activities Performed: Coordination and construction supervision of all infrastructure, utilities/services, roads and Yitzchak Rabin Park. Routine checking of materials and workmanship – quality assurance. Weekly site meetings with client, developer, utility companies, designer and contractors. Checking monthly interim payment certificates and reconciliation of final accounts. Updating monthly financial forecasts of the projects</p>
<p>Year: November 1993 - February 1996 – project 2</p> <p>Name of the assignment or project: Consultancy services for the supervision of the rehabilitation/resealing of section of highway No.40 between the town of Petach Tikva towards the International Airport, Israel (10 km)</p> <p>Location: Israel</p> <p>Client: Ministry of Public works, Israel</p> <p>Employer: Margolin Brothers Engineers Project Management</p> <p>Main Project features: Precontract negotiations, coordination and construction supervision of widening of road into dual carriageway. Replacement of existing drainage, sewage, electrical utilities/services, infrastructure, construction of road structure surfaced with asphalt concrete with sidewalks, landscaping, street lighting and ancillary works.</p> <p>Position Held: Project co-ordinator/ Team Leader</p> <p>Activities Performed: Assisting the client in evaluation of subcontractors, coordination site inspections with client, designer, representatives of different utilities companies, contractors local police, representatives of the municipality. Checking workmanship and overseeing the testing of materials- quality assurance. Checking and approval of monthly interim payment certificates. Approving final accounts and handing over the project on completion to the client</p>

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
<p>Year: January 1992 – November 1992</p> <p>Name of the assignment or project: Consultancy services for the supervision of stage I for the infrastructure, utilities/services and roads at Hazerim, Beersheva, Israel.</p> <p>Location: Israel</p> <p>Client: Ministry of Housing, Israel</p> <p>Employer: U.P.S. Project management, Beersheva, Israel</p> <p>Main Project features: Excavating and laying of water supply pipes and hydrants, main sewage and drainage supply pipes, electrical conduits, TV conduits, completion of stage I with subbase material.</p> <p>Position Held: Team Leader</p> <p>Activities Performed: Site inspections with designer, client, contractor. Routing checking of workmanship for quality assurance and overseeing the testing of materials, checking and approval of monthly interim payment certificates Phase 2 of project stopped due to financial difficulties of main contractor. Compiling contract documentation</p>
<p>Year: November 1988 – December 1991</p> <p>Name of the assignment or project: Consulting services of the coordination and supervision of infrastructure, utilities/services, roads, parks, schools, clinics, of new suburb of West Pisgat Zeev, Jerusalem, Israel.</p> <p>Location: Israel</p> <p>Client: Ministry of Housing, Israel</p> <p>Employer: BSR Engineers Project Management Ltd, Tel Aviv.</p> <p>Main Project features: Coordination and construction supervision of all infrastructure, utilities/services. Construction of school and public parks and all roads. Assisting the client in evaluating of contractors and precontract negotiations.</p> <p>Position Held: Project Section Consultant Supervisor of civil works.</p> <p>Activities Performed: Coordination of all contractors and subcontractors, site inspections with client, designers, contractors, Department of Antiquities. Checking workmanship and overseeing the testing of materials- quality assurance. Checking and approval of monthly interim payment certificates. Monthly checks of progress of the development of flats on behalf of the client. Approval of final accounts</p>
<p>Year: September 1987 – November 1988</p> <p>Name of the assignment or project: Construction of new runway at the military Airbase at Nevitim, Arad, Israel.</p> <p>Location: Israel</p> <p>Client: Ministry of Defense, Israel (project funded by USA Government supervised by the American Corp)</p> <p>Employer: Ramet Contractors, Israel</p> <p>Main Project features: Construction of new runway including all underground utilities/services and underground water storage tanks.</p> <p>Position Held: Section site construction manager</p> <p>Activities Performed: Responsible for overseeing the laying of water supply pipes, conduits for electricity and fuel pipes under the runway. Checking of reinforcement before casting of concrete of new runway-quality assurance</p>

Expert's contact information:

E-mail phillrubin1953@gmail.com

CURRICULUM VITAE (CV)

Position Title and No.	K-2, Bridge/Structural Engineer cum Deputy Team Leader
Name of Expert:	Leo A. Villamor
Date of Birth:	8 th of August, 1962
Country of Citizenship/Residence	Philippines / Philippines

Education: 1985 - University B.Sc. Degree in Civil Engineering, Saint Peters College, Iligan City 1985

Other Trainings

- Safe Lifting & Rigging Operation by Mirdif Security & Safety Consultants, MHI Conference Room-#2, Deira, Dubai, December 14, 2006
- Construction Project Control Project Management Series by PICE, Leyte Chapter, Philippines Kanhuraw Convention Center, Tacloban City, Philippines, September 23-25, 1998
- Seminar/Field Trip on Latest Technology of Bridge Construction at Diego Silang
- Planning and Construction Management at Saint Peter's College, Iligan City, Philippines September 22-23, 1985

Employment Record Relevant to the Assignment:

Period	Employing organization and your title/position. Contact info for references	Country	Summary of activities performed relevant to the Assignment
Jan 2018 – to date Aug 2012 /Dec 2015	Employer: Beijing Expressway Supervision Co. Ltd. Contact: Gu Jun – Managing Director, Email: gujun@bes-overseas.com , Tel: +251 912 752168 Position: Sr. Structural Engineer	Ethiopia Uganda, East Africa	Feasibility, Design, Tender preparation and Construction Supervision
Mar 2016 / Dec 2017	Employer: Norconsult Mgt. Services, Philippines Contact: Aguedo Sahagun, Project Manager, Email: bhoy_s@yahoo.com , Tel #: +63 926 0228344 Position: Sr. Structural Engineer	Philippines	Design Review, Monitoring and Construction Supervision
Apr 2009 - Oct 2011	Employer: Renardet SA Contact: Giovanni Minisola, Area Manager, Tel. +251 911 211206, E-mail: minisola48@gmail.com Position: Structural Engineer	Ethiopia, East Africa	Design Review and Construction Supervision
Dec 2008 - Feb 2009	Employer: Egis Bceom Intl. Contact: Francy Morales, HR Manager, Email: francy@egis-bceom.ph , Tel #: +63 922 8215221/+632 6500800 Position: Sr. Structural Engineer	Vietnam Philippines	Design and Construction Supervision
Sep 2008 – Nov 2008	Employer: United Technologies Incorporation Contact: Pablo G. Racines, Managing Partner, Email: p.racines@yahoo.com , Tel #: +63 917 8175107 Position: Resident Engineer	Philippines	Construction Supervision
Mar 2007 – Aug 2008	Employer: Terna SA GEK Group Contact: Mas Malik, Deputy Project Manager, Email: terna@terna.ae , Tel #: +971 2 6451472 Position: Sr. Civil Engineer/ Structural Engineer	Abu Dhabi, UAE	Construction Supervision
Jul 2006 –	Employer: JT Metro JV (Obayashi- Kajima-Yapi	Dubai, UAE	Construction

Period	Employing organization and your title/position. Contact info for references	Country	Summary of activities performed relevant to the Assignment
Feb 2007	Merkezi JV) Contact: Fuyuki Katagiri, Project Manager, <i>Email: fkatagiri@jtmetro.ae</i> , Tel #: +971 4 2212121 Position : Civil Engineer		Supervision
Sep 2005 – July 2006	Employer: Philkoei Engineers Contact: Peter S. Samosa, President, <i>Email: psamoza@philkoei.com.ph</i> , Tel #: +632 8184729 Position: Sr. Bridge/Structural Inspector.	Philippines	Construction Supervision
Jan 2005 – Jun 2005	Employer: Tobishima Corporation Contact: Kazunori Inokuchi, General Manager, <i>Email: tobi_et@telstra.com</i> , Tel #: +670 3321622 Position: Project Engineer	Democratic Republic of Timor Leste	Construction Supervision
Aug 2003 – Jan 2005	Employer: Urban Integrated Consultants Contact: Amber Montemayor, Executive VP, Tel #: +63 918 9053051/+632 9285481 Position: Sr. Bridge/Structural Engineer.	Philippines	Construction Supervision
Jan 2003 – Aug 2003	Employer: Perk Technical Consultants Contact: Benjie Pauco, Executive VP, <i>Email: perk_tech@yahoo.com</i> , Tel #: +632 4703813 Position: Sr. Bridge/Structural Engineer.		
Nov 2000 – Jan 2003	Employer: United Technologies Incorporation Contact: Pablo G. Racines, Managing Partner, <i>Email: p.racines@yahoo.com</i> , Tel #: +63 917 8175107 Position : Structural Engineer		
Mar 2000 – Oct 2000	Employer: Mega Philippines H.W. Jv. Foundation Specialists Position : Project Engineer		
Apr 1997 – Feb 2000	Employer: EDCOP (Consultant) Position: Sr. Bridge/Structural Engineer.		
Sept 1996 – Mar 1997	Employer: ECT Consulting Engineers (Consultant) Position: Resident Engineer		
Mar 1996 – Aug 1996	<i>Employer: J.E. Manalo & Co. Incorporated</i> <i>Position: Project Engineer</i>		
Nov 1990 Feb 1996	Employer: TCGI Engineers (Consultant) Positions <ul style="list-style-type: none"> • Bridge/Highway/Quantity Engineer • Structural Inspector • Civil Engineer Inspector/ Quantity Engineer 		
Feb 1990 – Oct 1990	Employer: Advance Foundation Const. System Corp Position: Project Engineer		
May 1989 – Jan 1990	Employer: Foundation Specialists, Incorporated Position: Field Engineer		
Jun 1987 – Mar 1989	Employer: Philippine National Construction Corporation Position: Asst. Surveyor/Bridge Engineer		
Jun 1985 – Dec 1986	Employer: Dept. Of Public Works & Highways Position: Civil Engineer-Aide		

Membership in Professional Associations and Publications: *Philippine Institute of Civil Engineers (PICE)*

Language Skills (indicate only languages in which you can work): *English (good in written, spoken, read), Filipino (native speaker),*

Detailed Tasks Assigned on Consultant's Team of Experts (ref. Annex 1 - Schedules):
Deputy Leader, Bridge and Structural Engineering inspection and Monitoring for the:

- Activity 2: Construction Supervision/ Contract Admin including
 - Conduct Preliminary Site Inspections
 - Setting Up and Maintaining a Project Quality Plan & Construction Management Information System
 - Inspection and Supervision of Bridges and Structural Construction Works
 - Review and Approve Contractor's Drawings
 - Inspection of the Works at Substantial Completion, Issuance of Taking-Over Certificate

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

Name of assignment or project: *Modjo – Hawassa Expressway Project; Phase II: Zeway - Hawassa, Lot II: Arsi Nigele - Hawassa Road Project*

Year: January 2018 – present

Location: Ethiopia

Client: Ethiopian Roads Authority (ERA), **Donor:** EXIM Bank of China and Gov't. of Ethiopia

Main project features: Design Review and Construction supervision of the road section from km 150+000 to km 201+000 (51 km.). **Project Value:** USD 201.27 million

Positions held: **Structural Engineer**

Activities performed: Check and review all Structure. Selection Report and Design Criteria Report for all Bridges, Over Bridges, Underpasses and Culverts, Check and review all Shop Drawings for all Structures prior to submittal to Clients for acceptance, Check all Design Calculations for Structures, Review and accept all Method Statement related to construction for part of Structures, Check the fabrication, stressing and grouting for Precast Pre-stressed Box Girder, Manage and control the construction of scheduled 07nos. of Mainline bridges, 04nos. of Ramp Bridges; 02nos. of Link Road bridges; 09nos. of Over bridges; 19nos. of Underpasses; 35nos. of Slab Culverts; and 93nos. of pipe culverts, Attend regular meeting with the Client (ERA) and Contractor (CCCC) to discuss Progress of Work, Scheduling, Work Proposal and Changes and all other issues related to Work, Monitor Contractor if work comply with Approved Design Drawing and also Implemented Quality checking.

Name of assignment or project: *Construction of North Luzon Expressway Phase I Enhancement Project; Segment 2 Widening*

Year: March 2016 – December 2017

Location: Philippines

Client: MNTC, Philippines, **Donor:** Toll Regulatory Board (TRB), Philippines

Main project features: Design Review and Monitoring Works of the section from km 38+200 to km 66+100 with 2-bridges 1.) *Pulillan Bridge*; Widening of inner lanes for Northbound & Southbound, 2-decks (flat slab) 2.) *Candaba Viaduct* ; Construction/Widening of outer lanes for Northbound & Southbound of Lay-By 01 to 04, **Project Value:** USD 46.70 million

Positions held: **Sr. Structural Engineer**

Activities performed: Monitoring, review and evaluation of shop drawings, construction methodologies, revised plans and as-built drawings submitted by the contractor for approval and made comments and revisions whenever necessary, prepare and submit site reports to the Project Manager.

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

Name of assignment or project: *Addis Ababa - Adama Toll Motorway Road Project Phase-II (Lebu – Akaki – IT Park Outer Ring Road Design and Build Project)*

Year: November 2014 – December 2015

Location: Ethiopia

Client: Ethiopian Roads Authority (ERA), **Donor:** EXIM Bank of China and Gov't. of Ethiopia

Main project features: Design Review and Construction supervision of the road section from km 0+000 to km 28+450. **Project Value:** USD 230.30 million

Positions held: **Structural Engineer**

Activities performed: Check and review all Structure Selection Report and Design Criteria Report for all Bridges, Over Bridges, Underpasses and Culverts, Check and review all Shop Drawings for all Structures prior to submittal to Clients for acceptance, Check all Design Calculations for Structures, Review and accept all Method Statement related to construction for part of Structures, Check the fabrication, stressing and grouting for Precast Pre-stressed Box Girder, Manage and control the construction of scheduled 17nos. of Main bridges, 01no. of Over bridge; 54nos. of Slab Culverts; and 36nos. of pipe culverts, Attend regular meeting with the Client (ERA) and Contractor (CCCC) to discuss Progress of Work, Scheduling, Work Proposal and Changes and all other issues related to Work, Monitor Contractor if work comply with Approved Design Drawing and also Implemented Quality checking.

Name of assignment or project: *Consultancy Services for Feasibility, Environmental Impact Assessment (ELA) Studies, Assessment of Financing Options, Preparation of Resettlement Action Plan (RAP), Detail Engineering Design, and Tender Document Preparation for Adama - Awash Expressway Project*

Year: 11/2013 – 12/2014 (intermittent)

Location: Ethiopia

Client: Ethiopian Roads Authority (ERA), **Donor:** African Development Bank (AfDB)

Main project features: This project deals on establishing a 2nd Expressway of Ethiopia. The proposed project road connects Adama and Awash located in the eastern part of Ethiopia under the administration of three regional States viz. Oromia, Afar and briefly Amhara. Start point is about 90 km away from the capital city, Addis Ababa along the existing Addis Adama Road. The existing alignment of project road stretches around 125 km starting from Adama through Wellenchiti, Metehara and ends at Awash.

Positions held: **Structural Engineer**

Activities performed: Conceptual design of bridges and minor structures with preliminary outline plans and elevations for discussion and confirmation with the client and in accordance to the ERA Bridge Design Manual and ERA Drainage Design Manual.

Name of assignment or project: *Addis Ababa - Adama Toll Motorway Road Project Phase-I*

Year: April 2013 - April 2014 (intermittent)

Location: Ethiopia, East Africa

Client: Ethiopian Roads Authority (ERA). **Donor:** EXIM Bank of China and Gov't. of Ethiopia

Main project features: Design Review and Construction supervision of the road section from km 0+000 to km 79+655. **Project Value:** USD 612 million

Positions held: **Structural Engineer**

Activities performed: Check and review all Structure Selection Report and Design Criteria Report for all Bridges, Over Bridges, Underpasses and Culverts, Check and review all Shop Drawings for all Structures prior to submittal to Clients for acceptance, Check all Design Calculations for Structures, Review and accept all Method Statement related to construction for part of Structures, Check the fabrication, stressing and grouting for Precast Pre-stressed Box Girder, Manage and control the construction of scheduled 8nos. of Main bridges with span length of 75m to 150m, 43nos. of Vehicle Over bridges; 36nos. of Vehicle Underpasses and 36nos. of Pedestrian Underpasses; 77nos. of Slab Culverts; and 91nos. of pipe culverts, Attend regular meeting with the Client (UNRA) and Contractor (CCCC) to discuss Progress of Work, Scheduling, Work Proposal and Changes and all other issues

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

related to Work, Monitor Contractor if work comply with Approved Design Drawing and also Implemented Quality checking.

Name of assignment or project: *Kampala - Entebbe Expressway Project*

Year: August 2012 – March 2014

Location: Uganda, East Africa

Client: UNRA (Uganda National Roads Authority), **Donor:** EXIM Bank of China and Gov't. of Uganda

Main project features: Design Review and Construction supervision of the road section from km 0+000 to km 36+960. **Project Value:** USD 476 million.

Positions held: **Structural Engineer**

Activities performed: Check and review all Structure Selection Report and Design Criteria Report for all Bridges, Over Bridges, Underpasses and Culverts, Check and review all Shop Drawings for all Structures prior to submittal to Clients for acceptance, Check all Design Calculations for Structures, Review and accept all Method Statement related to construction for part of Structures, Check the fabrication, stressing and grouting for Precast Pre-stressed Box Girder, Manage and control the construction of scheduled 5nos. of Main bridges with span length of 80m to 1,457m ,19nos. of Vehicle Over bridges; 6nos. of Vehicle Underpasses and 11nos. of Pedestrian Underpasses; 17nos. of Slab Culverts; 8nos. RC Box Culverts and 44nos. of pipe culverts, Attend regular meeting with the Client (UNRA) and Contractor (CCCC) to discuss Progress of Work, Scheduling, Work Proposal and Changes and all other issues related to Work, Monitor Contractor if work comply with Approved Design Drawing and also Implemented Quality checking.

Name of assignment or project: *Construction of Addis Ababa Ring Road Phase-3 Project, Wingate Interchange-Gojam Road*

Year: April 2009 – October 2011

Location: Ethiopia

Client: Addis Ababa City Roads Authority(AACRA), **Donor:** Government of Ethiopia

Main project features: Design Review and Construction supervision of the section from 10+500 to km 13+500. **Project Value:** USD 50 Million (Ethiopian Birr 600 million)

Positions held: **Structural Engineer**

Activities performed: Design Review of original detailed design made by the Consultant, due to request of the Client, for the section from km 9+500 to km 10+500, including redesign of Debre Markos road Junction Roundabout. Review and comment on proposals and construction drawings prepared by the Contractor. Assist the Resident Engineer in all structural works supervision, in particular of the major Tinishu-Akaki Viaduct superstructure (pre-stressed viaduct, 310m length). Carry out minor modifications in design of bridges/culverts wherever required during execution. Select the location/types of major and minor structures if any alignment/design changes. Assist the Resident Engineer and Assistant Resident Engineer with updating drawings, setting up quantity and review of contractor's method of construction. Prepare Testing Program for structures. Final inspection of bridges / structures. Verification of contractor's Statements at completion. Assist the Resident Engineer and Assistant Resident Engineer in preparation of Contract Completion Reports.

Name of assignment or project: *Construction Supervision of South Luzon Expressway Project/Detail Design of Bus Rapid Transit (BRT) at Hanoi, Vietnam*

Year: December 2008 – February 2009

Location: Philippines/Vietnam

Client: TRB/DPWH/Philippines-PMC/Hanoi, Vietnam, **Donor:** MTD, Malaysian Government/World Bank(for Vietnam)

Main project features: Project consists of the full rehabilitation and upgrading of the existing 6-lane Alabang Viaduct with a span length of 1.2Km, rehabilitation and expansion of the existing toll road from Alabang to Calamba (28.53 km.) and the construction of the extension of the South Luzon Expressway (SLEX) to Sto. Tomas, Batangas (5. 81 km.) with the associated spur to the Southern

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

Tagalog Arterial Road (1.79km.). The total length of the project is approximately 37 kilometers. **Project Value:** USD 239.13 Million. The overall objectives of the project are to facilitate the construction of a Bus Rapid Transit (BRT) system with an estimated total length of 13.90 km. The project includes (i) a Bus Rapid Transit component; (ii) a Road Component; and (iii) an air quality management and institutional strengthening and capacity building component.

Positions held: Senior Bridge/Structural Engineer

Activities performed: Monitoring, review and evaluation of shop drawings, construction methodologies, revised plans, traffic management plans and as-built drawings submitted by the supervision consultant for approval and made comments and revisions whenever necessary, prepare and submit site reports to the team leader, perform short term assignment in Vietnam related to the present structural job and as directed by the company in which involves on studies of drainage & sub-drainage systems, investigate/study for bridges over rivers, canals & major culverts. Preparation of detailed design drawings and technical memories for structures. Prepared draft final report on the assigned duties. **Financed by:** MTD, Malaysian Government/World Bank(for Vietnam)

Name of assignment or project: *Construction of the Dubai Light Rail Transit Project*

Year: July 2006 – February 2007

Location: Dubai, United Arab Emirates

Client: Road and Transport Authority (RTA), **Donor:** World Bank

Main project features: Construction on fifty (50) km. of structures. Accomplishing a Light Railway Transit connection between Jebel-Ali Depot and Dubai International Airport. The Superstructure Component consists of over 43 km. Viaducts were built as pre-cast segmental bridges.

Project Value: USD3.525billion (£1.86billion)

Positions held: Civil Engineer (Viaduct Superstructure)

Activities performed: Supervised/Monitored the assembly and disassembly of launching gantries, transporting, offloading & hanging of pre-cast segment concrete deck slab, epoxy gluing on joints, cable stressing & grouting, setting/installation on temporary and permanent bearing pads. Prepared construction methodologies and daily progress reports.

Name of assignment or project: *Construction of Subic-Clark Expressway Project, Package – 1.*

Year: September 2005 – July 2006

Location: Philippines

Client: Base Conversion Development Authority(BCDA), **Donor:** World Bank

Main project features: Construction of 50.50 km of four (4) lane divided expressway traversing the provinces of Bataan, Pampanga and Tarlac. The major components were: New 4 lane ACP divided highway for a total of 50+50 km., River Bridge Structures of 34-locations, Expressway Structures, Construction of Toll Booths & Toll Collection Facilities, and Procurement of Toll Road Maintenance Equipment with a project cost estimated at PHP 11 billion.

Positions held: Senior Structural/Bridge Inspector

Activities performed: Site supervision on the construction of 3-bridges namely: (i) Pasig-Potrero Bridge (720 linear meters); (ii) Sapang-Bato Bridge (150 linear meters); and, Babo-Pangulo Bridge (150 linear meters). Supervised and monitored bored piling operation and other related works. Ensured that bridge substructure and superstructure works was in accordance to the approved plans and specifications. Submitted daily inspection report and other documents related to the work implementation of the project.

Name of assignment or project: *Construction Supervision of the 6th Road Project, Bridge Component, Contract Package-1*

Year: August 2003 – January 2005

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** Asian Development Bank (ADB)

Main project features: Replacement of 2-bridges spanning a total length of 155.50 m. namely: (i)

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

Lipay; and, (ii) Pamatawan Bridge. The main items of work included: construction of new foundation, substructures, superstructures, river training and slope protection works for the replacement bridges, repair damaged components and seismic retrofitting of existing bridges. **Project Value:** USD 2.5 million

Positions held: Sr. Bridge/Structural Engineer

Activities performed: Assisted the Resident Engineer for the general site. Supervision and acted on behalf of his position whenever on official leave of absence. Responsible on all structural matters and ensure that initiated works is in accordance with acceptable criteria standards.

Name of assignment or project: *Construction of Bridges Along Rural Roads in Northern Luzon, Phase-VI*

Year: January 2003 – August 2003

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** Japan International Cooperation Agency (JICA)

Main project features: Construction of forty (40) Bridges and approach roads at the innermost part of Rural Areas of Northern Philippines.

Positions held: Sr. Bridge/Structural Engineer

Activities performed: Supervised the construction activities and checked if such were completed accordingly. Conducted ocular inspection of the structural facilities, and other appurtenance structures. Monitored and supervised the delivery of pre-fabricated steel and oversaw the fabrication and stressing of pre-cast structural members, and likewise coordinated with supervisors of the pre-cast plants regarding prompt delivery of the necessary items. Monitored the weekly progress of work, prepares the weekly report regarding the accomplishment and made recommendations regarding better accomplishment in succeeding weeks.

Name of assignment or project: Various Road Projects

i.) Construction Supervision of Rural Road Network Development Project, Phase II Contract Package III, Santiago-Lidlidda San Emilio Road, Province of Ilocos Sur, Philippines, (August 2002–December 2002)

ii.) Construction Supervision of Rural Road Network Development Project, Phase II, Contract Package III, Jct. Gattaran-Capissayan Road, Province of Cagayan, Philippines, (June 2001–August 2002)

iii.) Construction Supervision of Rural Road Network Development Project, Phase II, Contract Package III, Tigaon-Mayong Road, Province of Camarines Sur, Philippines, (November 2000–May 2001)

Year: November 2000 – December 2002

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** Japan International Cooperation Agency (JICA)

Main project features:

i.) Ilocos Sur, Construction of 3-bridges, spanning a total length of 162.50meters, 10-RCBC of varying length and sizes and 30-stations of R.C. pipe culverts of different sizes.

ii.) Cagayan Province, Construction of 4.0 km. Reinforced concrete slope protection, reinforced concrete retaining wall, 12 RCBC of varying length and sizes and 137 stations of R.C. Pipe Culverts comprising of assorted sizes.

iii.) Camarines Sur, Construction of 5-bridges, spanning a total length of 94.40meters, 8-RCBC of varying length and sizes and 108-stations of R.C. pipe culverts of different sizes.

Positions held: Senior Bridge/Structural Engineer

Activities performed: Oversee the fabrication works of all structural matters regarding the project implementation. Conducted daily inspections on structural works to ensure strict compliance on designs and specification. Transmitted in writing to the contractor any possible comments with regard to project implementation. Reviewed and checked working shop drawings prior to

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

construction. Assisted the Sr. Highway Engineers on other structures.

Project Value: USD 45.50 million

Name of assignment or project: *Construction Supervision of Arterial Road Link Development Project Phase-I Contract Package II-A & B, South Samar Coastal Road*

Year: April 1997 – February 2000

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** Japan International Cooperation Agency (JICA)

Main project features:

- i.) C.P. II-A Construction of 3-bridges spanning a total length of 106.33meters, 14-RCBC of varying length and sizes and 83 stations of R.C. pipe culverts comprising of assorted sizes.
- ii.) C.P. II-B Construction of 4 bridges spanning a total length of 179.74meters, one of which is the Bulusao Bridge resting on bored piles. Likewise, calls for the construction of 11 boxes culverts of varying length and 72 stations of R.C. pipe culverts of assorted sizes. **Project Value:** USD 20.50

Positions held: Senior Bridge/Structural Engineer

Activities performed: Conducted daily inspection of all structural works to ensure strict compliance on design and specification. Oversee the fabrication and stressing of pre-stressed concrete girders at the site. Supervised and monitored the bored piling and R.C. pile driving activities. Responsible for the checking and review on shop drawings and construction scheme for structural works.

Name of assignment or project: *Bridge Retrofitting Program for Essential Bridges in Earthquake Reconstruction Project – Affected in Luzon, Contract Package – 13*

Year: March 1996 – August 1996

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** Japan International Cooperation Agency (JICA)

Main project features: Epoxy injection on reinforced concrete girders with hairline cracks, reconstruction of bridge approaches, bridge diaphragms, shear keys footings, abutment slope protection and driving of additional piles on pier footings. **Project Value:** USD 18.20 million

Positions held: Project Engineer

Activities performed: Organized, coordinated and managed the sub-contractors to ensure that all works in the project were completed within the approved costs, schedules and quality. Managed the general coordination and scheduling of works per approve CPM milestones and other networks. Monitored the sub-contractors accomplishment, manpower equipment and materials on site. Initiated and led the micro-level planning and programming of the sub-contractor's work with the foremost objective of attaining the const. phasing of milestone dates within the contract period. Conducted weekly coordination meetings with the sub-contractors to resolve problems encountered and to address potential delays. Reviewed, checked and expedited the preparation of the coordinated utility drawings to ensure proper implementation. Transmitted in writing to all concerned any contract interpretation where possible disputes arose.

Name of assignment or project: *Bridge Rehabilitation Project, Marilao Bridge, Bulacan, Philippines*

Year: July 1995 – February 1996

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** Japan International Cooperation Agency (JICA)

Main project features: Construction of new pre-stressed concrete deck girder type bridge with bored pile type foundations, reconstruction of approach roads and rehabilitation of existing service roads crossing the bridge beneath pier-2 and abut-A. **Project Value:** USD 6.30 million

Positions held: Bridge/Highway/Quantity Engineer

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

Activities performed: Supervised and monitored all construction activities for the adherence to prescribed work specification. Prepared daily, weekly and monthly reports. Performed surveying works prior to construction progress. Evaluated work progress against planned schedule and update construction schedule. Oversee the fabrication of pre-stressed concrete girders and piles, and checked steel reinforcements installations of wire strands and elongation during stressing.

Name of assignment or project: *Circumferential Road C-5/R-4 Project Package A-1-1, Katipunan Ave./Aurora Blvd. Interchange/ Fly-over, Quezon City Segment, Philippines*

Year: May 1995 – June 1995

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** Japan International Cooperation Agency (JICA)

Main project features: Construction of new pre-stressed concrete deck girder type bridge and fly-over with bored pile type foundation reinforced concrete retaining walls, asphalts and PCCP roads, RCPC & RCBC type drainage & street lightings. **Project Value:** USD 34.10 million

Positions held: **Structural Inspector**

Activities performed: Supervised/monitored the bored piles type foundation methodology. Conducted daily inspection of all structural works to ensure strict compliance on designs and specification. Oversaw the fabrication of pre-stressed concrete girders and the accredited commercial plant mix. Prepared and submitted the daily Inspector's Report to the immediate superior.

Name of assignment or project: *Bridge Rehabilitation Project, Bauang I & II Bridges, La Union, Philippines*

Year: January 1995 – April 1995

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** Japan International Cooperation Agency (JICA)

Main project features: Construction of new pre-stressed concrete deck girder type bridge with bored pile type foundation, reconstruction of PCCP roads (between bridges). **Project Value:** USD 27.30 million

Positions held: **C.E. Inspector/Quantity Engineer**

Activities performed: Oversaw the bored piling activities. Assisted/monitored on the loading test for the R.C. pile type foundation. Supervision on formwork and steel reinforcement and substructures and superstructures respectively. Performed surveying works. Verified, evaluated prior to recommendation of any revision or change order due to actual field conditions.

Name of assignment or project: *Rural Infrastructure Fund Project, USAID Grant, Sogod Port, Leyte, Philippines*

Year: April 1994 – December 1994

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** U.S. Agency for International Development (USAID). **Main project features:** Construction of 12meter x 42meter reinforced concrete pier extension, installation of timber fender clusters and timber wallings, rehabilitation of 13meters x 26meters rock causeway @ the reinforced concrete pier approach, construction of 27meter rock causeway with reinforced concrete stair landing @ the fish port area. **Project Value:** USD 1.02 million

Positions held: **C.E. Inspector/Quantity Engineer**

Activities performed: Conducted joint hydro graphic survey with the Contractor's representative prior to construction phase. Reviewed and evaluate the construction drawings, specifications and budgetary cost estimates in relation to site conditions and submit recommendations. Reviewed and suggested revisions, if any on the Contractor's construction schedule, organizational chart and shop drawings. Evaluated, processed and recommended for payment of all Contractor's application for progress payments. Supervised and monitored all construction activities to ensure compliance with

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

the drawings and specification.

Name of assignment or project: *Rural Infrastructure Fund Project, USAID Grant, San Pascual Port, Masbate, Philippines*

Year: January 1993 – December 1993

Location: Philippines

Client: Department of Public Works & Highways (DPWH), **Donor:** U.S. Agency for International Development (USAID)

Main project features: Construction of 12meter x 51meter reinforced concrete pier with 7meter x 10.40meter pier approach, passengers and cargo landing platforms, port building, rock causeway, seawall, stair landing & rehabilitation works on 60 linear meter concrete road. **Project Value:** USD 1.136 million

Positions held: C.E. Inspector/Quantity Engineer

Activities performed: Supervised and monitored the formworks and rebar installation prior to concreting works. Supervision on pile driving activities and preparation of pile driving data. Evaluated all actual quantities of works accomplished per item. Performed surveying works. Checked and evaluated the Contractor's payment certificate.

Name of assignment or project: *Rural Infrastructure Fund Project, USAID Grant, Mandaon Port, Masbate, Philippines*

Year: November 1990 – December 1992

Location: Philippines

Client: DPWH (Department of Public Works & Highways), **Donor:** U.S. Agency for International Development (USAID)

Main project features: Construction of 220 linear meter rock causeways with stair landing, and 31.50 meters wharfs with crib wall foundations, 1,400sq.m. Reclamation with SBST coating, 41 linear meters access road & a passenger shed/building. **Project Value:** USD 1.045 million

Positions held: Quantity Surveyor

Activities performed: Supervision of topographic and location survey as well as verification of alignments done in the field on or before construction stage. Reviewed construction plans, site inspections, Verification of Contractor's stake-out and location survey and control reference marks including cross-sections and profile and measurement survey of completed works. Prepared monthly accomplishment report. Evaluated and checked the Contractor's monthly billing.

Name of assignment or project: *Road Projects in Palawan and Quezon Province, Philippines. Also, for the foundation preparations on the Robinsons Mixed Used Complex, Manila, Philippines*

Year: June 1987 – March 1989

Location: Philippines

Client: DPWH, Private Sector, **Donor:** Asian Development Bank (ADB)

Main project features: The project involves in the construction of new roads and bridges, RCBC, RCPC and other drainage structures. Excavations/Earthmoving works at proposed site of Robinson's group of companies.

Positions held: Assistant Surveyor/Bridge Engineer

Activities performed: Responsible for the construction of 4 bridges at Catanauan Road Project. Performed road networks and structure layout prior to construction activities. Performed quantifying works for both earthworks and structures prior to collection of monthly billings. Established elevations as pre-construction plan prior to installation of forms and reinforcing bars. Prepared manpower scheduling. Assisted the chief of party especially at the forested and malaria infested area.

Expert's contact information:

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phone +251-943-722158 & +251-944-363678/+63-46-6863009

CURRICULUM VITAE (CV)

Position Title and No.	K-3 – Geotechnical/Soil Engineer
Name of Expert:	Franco Braus
Date of Birth:	03/10/1961
Country of Citizenship	Italian
Residence	Belizean Resident

Education: 1994 – University M.Sc. Degree in Geological Science, University of Bologna, Italy

Employment record relevant to the assignment:

Period	Employing organization and your title/position. Contact info for references	Country	Summary of activities performed relevant to the Assignment
2015 To Date	Geoteam, Belize Positions held: Principal & Project Manager, Environmental Expert Contact: Franco Braus Tel. + 501 601 8401	Belize Guatemala Nigeria Ghana Italy	He is a Professional Geotechnical Engineer. With 30 Years of General Experience in the Construction Sector, he has 23 years of seniority in Geotechnical Engineering and Investigations for infrastructure projects and 7 years in Project Management, 4 years of which spent in Belizean Projects. His residence in Belize gives him a strong advantage and full availability for the attendance to the Project, being already based in the Area.
1998-2014	Self Employed as Project Manager, Environmental Consultant, Geologist and Geotechnical consultant Contact: Franco Braus Tel. +501 601 8401		His Italian origin mixed with his knowledge of the Belizean Context makes him an effective and reliable Geotechnical Expert and Deputy Team Leader, to support the Geotechnical activities and support the Team Leader to coordinate the mixed Italian/Belizean Team as the one proposed. He started his career as Geologist, Geotechnician and Environmental Expert, to become soon an experienced Professional in all phases of a Construction Project: from the early design planning, verification of documents, coordination with Stakeholders, until the Supervision of the construction and the final commissioning, with a particular attention on the Geotechnical engineering, Laboratory Tests and Environmental Impact for transport infrastructure Projects .
1985 - 1997	Studio Tecnico Eugenio Braus, Bolzano, Italy Position Held: Technical Expert and Safety Expert. Contacts: Eugenio Braus.		He has worked for Public Authorities and Consultancy Companies, also with International Funding Institutions, therefore he has also a wide experience in the Quality Assurance and Procedures required in similar Projects

Memberships of Professional Associations:

- Registration to the Italian Geologists National Board - Registered with number 143, year 1996
- Member of Occupational Health and Safety Expert of Italian Association – Registered with number 1633, since 1997

Language Skills (indicate only languages in which you can work): English (good in written, spoken, read), Spanish (good in written, spoken, read), Italian (native speaker),

Detailed Tasks Assigned on Consultant's Team of Experts (ref. Annex 1 - Schedules):

Geotechnical Engineering, Soil & Material Monitoring for the:

- Activity 2: Construction Supervision/ Contract Admin.

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks	
DATES & PLACE	2016 – to date, Belize
CLIENT	GEOTEAM - Belize C.A (Consultancy Company)
PROJECT TITLE	Coco Plum Development Area, Placencia Peninsula. Two story villas. Surface Designed and built approx.. 3,500 Square Feet
POSITION HELD / ACTIVITIES:	Project Manager, Geotechnical and Environmental Consultant. Technical, economical and pre-contractual assistance, Design vetting during all phases of the project, Supervision and control of the works, Control and approval of the procedures and maintenance manuals
DATES & PLACE	Nov. 2015 – Dec. 2016, Guatemala
CLIENT	GEOTEAM - Belize C.A (Consultancy Company) for ENEL
PROJECT TITLE	Hydroelectric Plant for ENEL green Power
POSITION HELD / ACTIVITIES:	Engineering Manager, Environmental Consultant in charge of Safety, technical assistance in the survey planning and coordination of the Construction sites, Environmental Impact Assessment Study, management of Client's Technical Office in Palo Viejo.
DATES & PLACE	Jun 2015/ Aug. 2016, Belize
CLIENT	BBRP LCC (Construction Company)
PROJECT TITLE	PLAZA Project, Approx. 81,860 Square Feet. Residential and Commercial Development in Placencia Village. Designed and Built for Offices, Restaurant, Belize Bank Branch, Retail and Offices spaces.
POSITION HELD / ACTIVITIES:	Environmental Consultant and Project Manager carrying out the following tasks: Meet operational standards by contributing construction information to strategic plans and reviews, implementing production, productivity, quality, resolving problem, Scheduling and coordinating staff and subcontractors, evaluating and implementing change orders, Review, approve, or modify product designs, develop cost analysis for the proposed best engineering solution, Prepare budgets, bids and contracts, Approve expenditures.
DATES & PLACE	Apr. 2013 to Jun 2015, Belize
CLIENT	CCM – GEOTEAM Belize C.A (Consultancy Company)
PROJECT TITLE	Robert's Grove Marina Development: Residential and Marina Projects. Residential subdivision of 13 acres on the lagoon site in Placencia Peninsula for build 30 villas with marina/boat docking facility.
POSITION HELD / ACTIVITIES:	Project Manager and Environmental Consultant. Technical, economical and pre-contractual assistance, Design vetting during all phases of the project, Supervision and control of the works, Control and approval of the procedures and maintenance manuals
DATES & PLACE	Feb. 2012 to Apr. 2013, Ghana
CLIENT	SONGHAI Ltd. (Construction Company)
PROJECT TITLE	Construction of an Aggregate Crushing Plant (Winneba)
POSITION HELD / ACTIVITIES:	Project Manager in charge of: Technical, economical and pre-contractual assistance, Coordination of the Technical Staff and expertise to solve all the problems arising during the land acquisition

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks	
DATES & PLACE	Jan 2010 / Jan 2012, Nigeria
CLIENT	TEAM Nig. Ltd (Consultancy Company) for the final Client Ministry of Transport
PROJECT TITLE	Nigerian Railway Modernisation Project Addendum 1 Abuja-Idu-Kaduna (Nigeria),
POSITION HELD / ACTIVITIES:	<p>Deputy Project Manager and Geotech. Expert in charge of:</p> <ul style="list-style-type: none"> • Vetting the design and works, supervision on the site with particular reference to geological and geotechnical components. • Responsible for weekly and monthly progress report, management of the periodical site meetings with the Client. • Senior Technician of the Geotechnical Laboratory with supervision of all test activity.
DATES & PLACE	Jan 2009 / Dec 2009, Italy
CLIENT	Calzà Construction Company
PROJECT TITLE	Building of a bridge for the ECOCENTER in Cardano (BZ) Italy.
POSITION HELD / ACTIVITIES:	Technical and Safety Expert Manager also acting as senior geologist and field supervisor during construction. In charge of Risk management planning.
DATES & PLACE	Aug 2008 / Dec. 2008, Nigeria
CLIENT	TEAM Nig. Ltd (Consultancy Company) for the final Client Ministry of Transport
PROJECT TITLE	Lagos-Kano new Railway Project
POSITION HELD / ACTIVITIES:	Expert Geologist Manager in charge of the Technical assistance within the design vetting and works supervision on the site, with particular reference of geotechnical site investigations for all materials which need to be tested during the works and supervision of all laboratory testing
DATES & PLACE	Sep 2007 to July 2008, Italy & Austria
CLIENT	BBT SE - Brenner Basistunnel (European public limited company for the construction of railway tunnel between Austria and Italy)
PROJECT TITLE	tunnel Aica Mules – Brenner Basis Tunnel
POSITION HELD / ACTIVITIES:	Project Manager and Senior Geologist in charge of the environmental monitoring and testing about the characteristics of the water, soil and excavated rocks of the tunnel
DATES & PLACE	January 2007 to August 2007, Italy
CLIENT	Autonomous Province of Bolzano Italy - Infrastructural Office
PROJECT TITLE	Alumina3” Project in the industrial Zone of Bolzano Italy
POSITION HELD / ACTIVITIES:	Project Manager and Expert Geologist in charge of Laboratory test of polluted materials and elaboration of a reclamation project through “Bio-venting” . Also in charge of safety coordination for the reclamation of hydrocarbon polluted land
DATES & PLACE	From July 2005 to January 2007, Italy
CLIENT	Geoconsulting int. (Consultancy Company)
PROJECT TITLE	Various

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks	
POSITION HELD / ACTIVITIES:	Senior Geologist in charge of: <ul style="list-style-type: none"> • Elaboration of geological/hydrogeological projects for a hydro-electrical power stations over the river Gadera, Bolzano, Italy, and in Val Venosta, Bolzano, Italy on behalf of "Eisackwerk Hydropower". • Stability and falling rock test with arrangement of safety structures on the tunnel of Val di Vizze, Bolzano, Italy • Stability test and study for the implementation of safety measures on the rocky slope above the new expansion area of Vadena (BZ) Italy.
DATES & PLACE	From October 2005 to July 2006, Italy
CLIENT	Autonomous Province of Bolzano Italy - Infrastructural Office
PROJECT TITLE	Building of a bridge for the ring road Albes -Bressanone Italy.
POSITION HELD / ACTIVITIES:	Deputy Project Manager and Expert Geologist
DATES & PLACE	From January 2003 to March 2005
CLIENT	Autonomous Province of Bolzano Italy - Infrastructural Office
PROJECT TITLE	Factory "IVECO" and Steel Factory "Valbruna" in the industrial Zone Bolzano, Italy.
POSITION HELD / ACTIVITIES:	Project Manager in charge of Soil Laboratory tests of polluted materials and elaboration of a reclamation project through "Bio-venting", "Hydraulic barrier" and safety coordination for the reclamation of hydrocarbon polluted land
DATES & PLACE	From January 2004 to September 2008, Italy
CLIENT	San Floriano S.r.l. Laghetti di Egna, Bolzano, Italy
PROJECT TITLE	Construction of an aggregates quarry
POSITION HELD / ACTIVITIES:	Project Manager and Geologist in charge of Design Management and supervision of project, geologist supervisor of the aggregates quarry
DATES & PLACE	From April 2002 to February 2003, Italy
CLIENT	Court of Trento, Italy
PROJECT TITLE	Court case to a landslide caused by water loss of a hydroelectric plant tunnel
POSITION HELD / ACTIVITIES:	Supervisor of the Geotechnical investigations , 3D geological and hydrogeological modelling, elaboration and maintenance of the monitoring data
DATES & PLACE	From May 1999 to December 2003
CLIENT	Autonomous Province of Bolzano Italy - Infrastructural Office
PROJECT TITLE	Technical Assistances
POSITION HELD / ACTIVITIES:	Assistant Project Manager and Geo-environmental Consultant Expert in charge of: <ul style="list-style-type: none"> • Responsible of a study on behalf of the Waste Management Office about the standards used to classify land located in the abandoned productive area and potentially polluted and the subsequently elaboration and execution of the project to reclaim and make safe the total area in the Industrial Zone of Bolzano, Italy. • Supervisor of drilling investigation, 3D geological modelling and geo-statistical evaluation, maintenance of database in the project of Tunnel - Aica-Bressanone, Italy
DATES & PLACE	From April 1993 to April 1999, Italy
CLIENT	Autonomous Province of Bolzano Italy - Infrastructural Office
PROJECT TITLE	Factory "Aluminia2" in Bolzano

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks	
POSITION HELD / ACTIVITIES:	Assistant Project Manager and Geo-environmental Consultant Expert Expert and Geo-environmental Consultant. Supervisor of all materials which need to be tested during the reclamation and disposal of, contaminated dust originated by the furnaces of the Factory "Aluminia2" in Bolzano, Italy.
DATES & PLACE	January 1992 to March 1993
CLIENT	Geoconsulting int (Consultancy Company)
PROJECT TITLE	Construction of a concrete dam "Knipass"
POSITION HELD / ACTIVITIES:	Geologist in-charge of supervision the correct execution of the investigation and test during the construction of the concrete dam "Knipass" on the Rienza River in locality San Lorenzo di Sebato, Italy
DATES & PLACE	From January 1991 to December 1991, Italy
CLIENT	Geoconsulting int (Consultancy Company)
PROJECT TITLE	gemmology school project
POSITION HELD / ACTIVITIES:	Geologist Responsible for geological, petrography and geophysical survey, market research, organisation of a gemmology school in the project "Precious stones in Uruguay" funded by CEE
DATES & PLACE	From January 1989 to December 1990, Nigeria
CLIENT	TEAM Nig. Ltd (Consultancy company)
PROJECT TITLE	railway construction - Ajaokuta-Itakpe-Okene
POSITION HELD / ACTIVITIES:	Geotechnical Project Manager , Assistant and Responsible for the geotechnical laboratory during the railway construction - Ajaokuta-Itakpe-Okene, Nigeria
DATES & PLACE	From January 1988 to December 1988, Italy
CLIENT	RIMIN Gruppo ENI (Private Corporation)
PROJECT TITLE	mining research study in Alto Adige
POSITION HELD / ACTIVITIES:	Geotechnical Surveyor In charge of execution of collecting and record the data of samples of soil and material in a mining research study in Alto Adige , Italy
DATES & PLACE	From January 1987 to December 1997, Italy
CLIENT	Geobhor S.r.l.
PROJECT TITLE	Various works undertaken by Federal Agencies, Construction Contractors, Private Citizen and other Consulting Engineers Firms in relation to all geotechnical tests.
POSITION HELD / ACTIVITIES:	Geotechnical Laboratory Technician
DATES & PLACE	From January 1985 to December 1986, Italy
CLIENT	Studio Tecnico Braus Eugenio
PROJECT TITLE	Technical Consultancies
POSITION HELD / ACTIVITIES:	Technical Office - Safety Expert Consultant for the Court of Bolzano, Italy. Verification of the quality assurance and safety procedure in court cases as assistant of the Technical expert of the Court

Expert's contact information:

E-mail geoteam@braus.it
phone +501 601 8401)

CURRICULUM VITAE (CV)

Position Title and No.:	K4 - Licensed Land Surveyor
Name of Expert:	Lloyd Tingling
Country of Citizenship/Residence:	Belize/Belize

Education:

School, College and/or University Attended:	Degree/certificate or other specialized education obtained	Date Obtained
North East London Polytechnic	BSc Land Surveying Sciences	1973-1977

Employment Record relevant to the assignment

Period	Employing Organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
1995 to Present	Private Practice Position held: Land Surveyor References: Kenneth Fairweather Mobile: +501-610-2942	Belize	Performed legal surveys Area reconnaissance and subdivision design Performed Cadastral and Engineering surveys Performed Property appraisals
1993-1995	Government of Belize, Lands and Surveys Department Position held: Senior Lands Surveyor References:	Belize	Supervised Mapping and Survey Section Responsible for Surveys administration Country wide
1988-1993	Government of Belize, Lands and Surveys Department Position held: District Land and Survey Officer References:	Belize	Supervising of surveys and land management in the Toledo District Responsible for Lands and Surveys Administration Toledo district.
1977-1988	Government of Belize, Lands and Surveys Department Position held: District Land and Survey Officer		Responsible for Land surveys Cayo district and Belmopan City in particular.

Membership in Professional Associations and Publications:

Association of Licensed Land Surveyors of Belize

Language Skills (indicate only languages in which you can work):

	Speaking	Reading	Writing
English:	Fluent	Fluent	Fluent
Spanish	Basic	Basic	Basic

Detailed Tasks Assigned on Consultant's Team of Experts (ref. Annex 1 - Schedules):

Land Surveying for:

- Activity 2: Construction Supervision/ Contract Administration
- Activity 3: Post Construction Services

Adequacy for the Assignment:

Detailed Tasks Assigned:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
Land Surveying	<p>Name of assignment: Self Employed Year: 1995 to Present Location: Belize Client: Various Main project features: Performed topographic and cadastral surveys, boundary surveys, finish grade surveys, landscape surveys, construction surveys, and final surveys.</p> <p>Position held: Director Activities performed:</p> <ul style="list-style-type: none"> • Performed legal surveys • Area reconnaissance and subdivision design • Performed Cadastral and Engineering surveys • Performed Property appraisals • Communicated with team members and ensured completion of projects within timeframe. • Provided technical support to any other surveyors involved with each project. • Collected land survey data using GPS system. • Prepared survey drawings and descriptions as directed. • Provided survey and mapping services to meet client requirements. • Performed detailed field surveys and oversaw the activities of field survey crews in performing the survey. • Maintained accurate notes, records and sketches to describe and certify work performed. • Researched previous survey evidence, maps, physical evidence and other records. • Planned and conducted ground surveys designed to establish baselines, elevations, and other. • Acted as liaison between engineers and field surveyors, reduced/analysed field data, adjusted horizontal/vertical control.

Detailed Tasks Assigned:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
	<p>Name of assignment: Government of Belize</p> <p>Year: 1988-1995</p> <p>Location: Belize</p> <p>Client: Land and Survey Department</p> <p>Main project features: Prepare and maintain sketches, maps, reports, and legal descriptions of surveys in order to describe, certify, and assume liability for work performed.</p> <p>Position held: District Land and Survey Officer (1988-1993) & Senior Lands Surveyor (1993-1995)</p> <p>Activities performed:</p> <ul style="list-style-type: none"> • Supervised Mapping and Survey Section • Preparing Yearly Budget for the Mapping and Survey Section • Supervising of surveys and land management in the Belmopan District and countrywide • Responsible for all Government Surveys, supervising all field operation and when necessary carrying out the actual operations. • Settling land disputes and making final decision in these matters. • Responsible for training technicians and the continued training of assistant surveyors. • Responsible for the result of all planning and layout deigns. • Responsible for the deployment of labour force. • Able to interpret and write legal land descriptions • Prepared detailed and accurate records for daily tasks • Reviewed blueprints and legal documents to survey areas in detail. • Responsible for accurate topographic, as-built, boundary surveys. • Responsible for collecting and analyzing data for future staking • Responsible for solo and conventional field crews • Creating/review and updating daily reports/field notes • Order equipment and supplies as needed for the field, and responsible of maintaining equipment to be sure it was being used properly. • Review and analyse work methods to increase efficiency and productivity and provide input into the writing of performance standards. • Independently communicated on technical matters with the client. • Performed and supervised various surveying functions including topography surveys, construction surveys, etc.

Expert's contact information:

Email: tingling@btl.net

Phone: +501-615 6787

CURRICULUM VITAE (CV)

Position Title and No	K5 – Site Engineer
Name of Expert:	Ramy Chia
Date of Birth:	10 th July 1981
Country of Citizenship/Residence:	Belize/ Belize

Education:

School, College and/or University Attended:	Degree/certificate or other specialized education obtained	Date Obtained
<i>Universidad a Distancia de Madrid</i>	Presently doing a Maters in Geotechnical Engineering	Started November 2018
Online learning initiative of Inter-American Development Bank through edX.	Project Management Techniques for Development Professionals	April 2017
<i>Universidad de Oriente (ISJAM) - Santiago de Cuba, Cuba</i>	Degree in Civil Engineering	July 2008

Employment Record relevant to the assignment

Period	Employing Organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
<i>February 2018 to Present</i>	<i>iMC Worldwide</i> Position held: Resident Engineer References: Mr. Derick Calles, Project Manager +501-669-0104	Belize	Measure the quantities of works executed and review Interim payment certificates submitted by contractor. Preparation of monthly reports. Ensure compliance with the drawings, technical specifications and generally all stipulations contained in the Contract Documents. Monitor and report on progress in order to achieve completion of the construction work within stipulated time limit. Provide assistance to the PEU in the overall implementation of the project through the rendering of appropriate advice. Give advice regarding problems and design issues arising during project execution including amendment to designs of the Roaring Creek Bridge and George Price Highway design.
<i>July 2014 to January 2018</i>	<i>Imer Hernandez Development Company Ltd</i> Position held: Site/Resident Engineer/ Quantity Surveyor	Belize	Head of Quality Control and Assurance – in charge of the soils Lab Design Modifications to the drainage and vertical alignment of streets. Daily supervision of works Manage the logistics of the project Construction Management and administration of recourses and distribution of labour force.

Period	Employing Organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
	References: Omir Vega, Head engineer <u>omirvega@hotmail.com</u> Mobile: +5016103321		Supervising the topographical setting out of works. Preparing weekly and monthly work programmes. Preparing overall monthly reports, financial reports and Interim Payment requests.
December 2014 to December 2016	DeMar's Construction Position held: Team Leader/Quantity Surveyor References: Denny Grijalva, Owner <u>dennygrijalva@gmail.com</u> Mobile: +5016104436	Belize	Geometric design of San Antonio to Yo Creek Road 7km Supervising the setting out and construction of the proposed design. Preparing financial reports and Interim Payment requests. Contract Management and preparation of monthly reports
August 2013- February 2014	BEDCO LTD. Position held: Supervising Consultant/Resident Engineer References: Abdala Bedran <u>runningw@btl.net</u> +5016103430	Belize	Revising and updating drawings and specification as to meet compliance with clients needs. Preparation of work programmes and monitoring work progress Ensuring all construction is done in compliance with drawings and specifications. Quality control and assurance of Concrete (taking samples, checking temperature and ensuring all material supplied is done so within specified cycle times. Development of AS-BUILT drawings.
June 2013 to July 2014	<i>Lopez Equipment Co.</i> Position held: Project Manager/ Resident Engineer References: Wilhelm Lopez <u>wilhelm@lopezequipm ent.bz</u> Mobile: +5016103203	Belize	Structural Design and all necessary Civil works design for infrastructures being constructed. Preparing overall monthly reports, financial reports and Interim Payment requests. Supervision of Construction Works Supervision of earth works and construction of all necessary infrastructures. Ensure that all works completed and submitted for approval are in compliance with British Standards and technical specifications. Control the daily execution of works. Checking levels Overseeing activities of Soils Lab (conducting tests and processing results in acceptable formats.)
November 2009- November 2012	Solid Waste Management Project, (IDB Funded Project) Position held: Technical Environmental Specialist		Sign off on and keep track of and document construction change orders and changes in drawings/plans of the infrastructure works. Conduct field supervision of the infrastructure works, attend site meetings related to construction and scheduling of the works. Review designs Project submitted by contractor.

Period	Employing Organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
	References: Gilroy Lewis, Project Director gilfranlewis@gmail.com Mobile: +5016684852		Verify and approve Interim and final payment certificates.
July 2010 to November 2011	Pickwick Hotel and Casino and the Benque Viejo Free Zone Infrastructure Ltd. Position held: Project Manager/ Resident Engineer References: Sunjay Hotchandani, Manager shotchandani@gmail.com Mobile: +5016104789	Belize	Project management and Procurement. Supervision of Construction and infrastructure works. Verify and approve Interim and final payment certificates.
February 2009 to July 2010	M&M Engineering Consultants Ltd Position held: Design and Resident Engineer References: Roque Matus, Owner roquermatus@yahoo.com Mobile: +5016104789	Belize	Structural Design Supervision of Construction Works
June 2007- August 2007	Tunich Nah Consultants Position held: Engineering Technician References: Jose Garcia, Owner pepe@btl.net +5016101093	Belize	Carried out topographical work. Completed site and construction drawings Designed water waste management system and infrastructure

Membership in Professional Associations and Publications:

Association of Professional Engineers of Belize

Language Skills (indicate only languages in which you can work)::

	Speaking	Reading	Writing
English:	Fluent	Fluent	Fluent
Spanish	Fluent	Fluent	Fluent

Detailed Tasks Assigned on Consultant's Team of Experts (ref. Annex 1 - Schedules):

Site Engineer, measuring of quantities and preparation of interim payment certificates for:

- Activity 2: Construction Supervision/ Contract Administration

Adequacy for the Assignment:

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
<p>Name of assignment: George Price Highway Rehabilitation Project</p> <p>Year: 02/2018 to Present</p> <p>Location: Belize</p> <p>Client: Government of Belize</p> <p>Main project features: The project aims to improve the road connectivity within Belize's main districts and with Central America by rehabilitating the George Price Highway road infrastructure between miles 47.9 in Belmopan and 67.3 in Santa Elena to national standards, decreasing travel time and costs, reducing road fatalities and injuries, and ensuring road accessibility by improving the corridor's climate change resilience.</p> <p>Position held: Resident Engineer</p> <p>Activities performed:</p> <ul style="list-style-type: none">• Ensure compliance with the drawings, technical specifications and generally all stipulations contained in the Contract Documents.• Monitor and report on progress in order to achieve completion of the construction work within stipulated time limit.• Provide assistance to the PEU in the overall implementation of the project through the rendering of appropriate advice.• Give advice regarding problems and design issues arising during project execution including amendment to designs of the Roaring Creek Bridge and George Price Highway design.• Measure the quantities of works executed and review Interim payment certificates submitted by contractor.• Preparation of monthly reports.
<p>Name of assignment: Belize Road Safety Project Lot 5</p> <p>Year: 02/2017 to 10/2017</p> <p>Location: Belize</p> <p>Client: Government of Belize</p> <p>Main project features: Upgrading of Municipal streets, incorporation of proper signage and Improvement of Drainage systems.</p> <p>Position held: Resident Engineer/Site Engineer</p> <p>Activities performed:</p> <ul style="list-style-type: none">• Supervise the construction, engineering work and provide technical expertise on the construction.• Ensured that tests and inspections are performed, witnessed, and documented in accordance with approved procedures.• Developed discipline construction schedules and monitored progress to ensure a timely completion.• Management and administration of recourses and distribution of labour force.• Make sure that the construction materials meet the requirements of the specifications and the designs.• Calculate the quantity of material, supplies and equipment needed for the project.• Chaired progress meetings and collaborated with contractor and client.• Placed an emphasis on safe construction practices (zero incident) and on maintaining a high quality of construction.• Prepared Interim Payment Certificate.
<p>Name of assignment: Rehabilitation of Streets in Belmopan, Municipal Development Project</p> <p>Year: 08/2015 to 09/2016</p> <p>Location: Belize</p> <p>Client: Social Investment Fund Belize</p> <p>Main project features: Upgrading of Municipal streets, incorporation of proper signage and Improvement of Drainage systems.</p>

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

Position held: Resident Engineer/Site Engineer

Activities performed:

- Establish and maintain project engineering records, including, but not limited to Project schedule, daily logs and cost reports.
- Developed design Modifications to the drainage and vertical alignment of streets under the project to ensure proper evacuation of Storm water.
- Responsible for reviewing the performance of subcontractors to assure contract compliance, the application of accepted construction technology and standards, and the acceptable standardization of materials and supplies.
- Supervise the construction, engineering work and provide technical expertise on the construction.
- Ensured that tests and inspections are performed, witnessed, and documented in accordance with approved procedures.
- Developed discipline construction schedules and monitored progress to ensure a timely completion.
- Management and administration of resources and distribution of labour force.
- Make sure that the construction materials meet the requirements of the specifications and the designs.
- Calculate the quantity of material, supplies and equipment needed for each individual project
- Provide technical advice to field staff in order to ensure that construction procedures are being carried out properly.
- Chaired progress meetings and collaborated with contractor and client.
- Placed an emphasis on safe construction practices (zero incident) and on maintaining a high quality of construction.
- Provided supervision and instruction to site surveyors for the topographical setting out of works.
- Employed knowledge of World Bank bidding procedures, standards and guidelines to ensure that project was executed in a manner that was acceptable to the client.

Name of assignment: Sugar Belt Road Rehabilitation Project- Phase 3 Lot-B2. 5.5km road works

Year: 12/2014 to 12/2016

Location: Belize

Client: Ministry of Works Government of Belize

Main project features: upgrade and construction of existing roads to all weather roads to include filling, paving, installation of Culverts and addressing drainage issues.

Position held: Team Leader

Activities performed:

- Revised the geometric design of San Antonio to Yo Creek Road as the original had errors with horizontal and vertical alignment.
- Establish and maintain project engineering records, including, but not limited to Project schedule, daily logs and cost reports.
- Developed design Modifications to the drainage and vertical alignment of streets under the project to ensure proper evacuation of Storm water.
- Responsible for reviewing the performance of subcontractors to assure contract compliance, the application of accepted construction technology and standards, and the acceptable standardization of materials and supplies.
- Supervise the construction, engineering work and provide technical expertise on the construction to ensure compliance with British Standards and technical specifications..
- Ensured that tests and inspections are performed, witnessed, and documented in accordance with approved procedures.
- Developed discipline construction schedules and monitored progress to ensure a timely completion.
- Management and administration of resources and distribution of labour force.
- Make sure that the construction materials meet the requirements of the specifications and the designs.
- Calculate the quantity of material, supplies and equipment needed for each individual project.

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

- Provide technical advice to field staff in order to ensure that construction procedures are being carried out properly.
- Chaired progress meetings and collaborated with contractor and client.
- Placed an emphasis on safe construction practices (zero incident) and on maintaining a high quality of construction
- Provided supervision and instruction to site surveyors for the topographical setting out of works.
- Employed knowledge of EU bidding procedures, standards and guidelines to ensure that project was executed in a manner that was acceptable to the client.

Name of assignment: Rehabilitation of Belize Corozal Road Project Orange Walk town & of Belize San Antonio Rd

Year: 07/2014 to 07/2014

Location: Belize

Client: Ministry of Works, Government of Belize

Main project features: 2 mile Hot Mix Asphalt application to include sidewalks and drainage

Position held: Resident Engineer/Design/Site Engineer

Activities performed:

- Design the Geometrical Alignment of roadway
- Establish and maintain project engineering records, including, but not limited to Project schedule, daily logs and cost reports.
- Responsible for reviewing the performance of subcontractors to assure contract compliance, the application of accepted construction technology and standards, and the acceptable standardization of materials and supplies.
- Supervise the construction, engineering work and provide technical expertise on the construction to ensure compliance with technical specifications..
- Management and administration of resources and distribution of labour force.
- Calculate the quantity of material, supplies and equipment needed for each individual project
- Provide technical advice to field staff in order to ensure that construction procedures are being carried out properly.
- Chaired progress meetings and collaborated with contractor and client.
- Placed an emphasis on safe construction practices (zero incident) and on maintaining a high quality of construction
- Provided supervision and instruction to site surveyors for the topographical setting out of works.

Name of assignment: Sugar Roads Project, Lot A phase 2 (12km). And Lot B Phase 2 (24km) funded by EU

Year: 06/2012 to 07/2014

Location: Belize

Client: Ministry of works, Government of Belize

Main project features: upgrade and construction of existing roads to all weather roads to include filling, paving, installation of Culverts and addressing drainage issues.

Position held: Assistant Resident Engineer for Lot A phase2 & Resident Engineer for Lot B Phase 2

Activities performed:

- Establish and maintain project engineering records, including, but not limited to Project schedule, daily logs, Monthly work programs and financial reports.
- Responsible for reviewing the performance of subcontractors to assure contract compliance, the application of accepted construction technology and standards, and the acceptable standardization of materials and supplies.
- Supervise the construction, engineering work and provide technical expertise on the construction to ensure compliance with British Standards and technical specifications..
- Ensured that tests and inspections are performed, witnessed, and documented in accordance with approved procedures.

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

- Developed discipline construction schedules and monitored progress to ensure a timely completion.
- Management and administration of resources and distribution of labour force.
- Make sure that the construction materials meet the requirements of the specifications and the designs.
- Calculate the quantity of material, supplies and equipment needed for each individual project
- Provide technical advice to field staff in order to ensure that construction procedures are being carried out properly.
- Chaired progress meetings and collaborated with contractor and client.
- Placed an emphasis on safe construction practices (zero incident) and on maintaining a high quality of construction
- Provided supervision and instruction to site surveyors for the topographical setting out of works.
- Developed Monthly Progress Report, including but not limited to financial status (S-curve), Work Program or Work Schedule, monthly update of contractor staff and equipment.
- Employed knowledge of EU bidding procedures, standards and guidelines to ensure that project was executed in a manner that was acceptable to the client.

Name of assignment: Design and Build of the Access Road to regional Sanitary Landfill located at mile 24 on the Western Highway Contract

Year: 01/2011 to 10/2011

Location: Belize

Client: Ministry of Natural Resources, Government of Belize

Main project features:

Position held: Technical environmental Specialist/Resident engineer

Activities performed:

- Provide local knowledge to assist and support the External International Consultants in developing the technical details for regulatory standards for the siting, design, construction
- Developed Bidding document and Contract Documents.
- Verify that the design and operation of the Project is in compliance with the Bank's Environmental and Safeguards Compliance Policy and in particular with the ECP and local environmental laws and regulations
- Carried out contract negotiations
- Supervised the works to include material sampling for further testing.
- Conducting Compaction test and ensured quality control and assurance.
- Reviewed contractor's payment applications against construction scheduled progress and inputs/resources consumed.
- Employed knowledge of IDB bidding procedures, standards and guidelines to ensure that project was executed in a manner that was acceptable to the client.

Name of assignment: Partial Closure of Mile 3 Dump Site, Belize City

Year: 02/2010 to 08/2010

Location: Belize

Client: Ministry of Natural Resources, Government of Belize

Main project features:

Position held: Technical environmental Specialist/Resident engineer

Activities performed:

- Provide local knowledge to assist and support the External International Consultants in developing the technical details for regulatory standards for the siting, design, construction
- Developed Bidding document and Contract Documents.
- Verify that the design and operation of the Project is in compliance with the Bank's Environmental and Safeguards Compliance Policy and in particular with the ECP and local environmental laws and regulations
- Carried out contract negotiations
- Supervised the works to include material sampling for further testing.

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

- Conducting Compaction test and ensured quality control and assurance.
- Reviewed contractor's payment applications against construction scheduled progress and inputs/resources consumed.

Name of assignment: Solid Waste Management Project, (IDB Funded Project)

Year: 11/2009 to 11/2012

Location: Belize

Client: Ministry of Natural Resources, Government of Belize

Main project features:

Position held: Technical environmental Specialist/Resident engineer

Activities performed:

- Provide local knowledge to assist and support the External International Consultants in developing the technical details for regulatory standards for the siting, design, construction
- Developed Bidding document and Contract Documents.
- Verify that the design and operation of the Project is in compliance with the Bank's Environmental and Safeguards Compliance Policy and in particular with the ECP and local environmental laws and regulations
- Carried out contract negotiations
- Supervised the works to include material sampling for further testing.
- Conducting Compaction test and ensured quality control and assurance.
- Reviewed contractor's payment applications against construction scheduled progress and inputs/resources consumed.
- Preparing Project Progress Reports, sign off on and keep track of and document construction change orders and changes in drawings/plans of the infrastructure works.
- Conduct field supervision of the infrastructure works, attend site meetings related to construction and scheduling of the works, prepare and submit timely reports on these.

Name of assignment: Benque Viejo Free Zone Infrastructure Project. (private owned)

Year: 07/2010 to 11/2011

Location: Belize

Client: Benque Viejo Free Zone Infrastructure

Main project features:

Position held: Project Manager/Resident Engineer

Activities performed:

- Reviewed contractor's payment applications against construction scheduled progress and inputs/resources consumed.
- Preparing Project Progress Reports, sign off on and keep track of and document construction change orders and changes in drawings/plans of the infrastructure works.
- Conduct field supervision of the infrastructure works, attend site meetings related to construction and scheduling of the works, prepare and submit timely reports on these.
- Chaired progress meetings and collaborated with contractor and client
- Provide technical advice to field staff in order to ensure that construction procedures are being carried out properly.

Name of assignment: Various Private warehouses and Hotels under M&M Engineering Consultants

Year: 07/2008 to 11/2009

Location: Belize

Client: M&M Engineering Consultants

Main project features: Construction and supervision of prefabricated buildings.

Position held: Project Manager/Resident Engineer

Activities performed:

- Provide technical advice to field staff in order to ensure that construction procedures are being carried out properly.
- Developed various Structural Design of Buildings.

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

- Supervise the construction, engineering work and provide technical expertise on the construction to ensure compliance with British Standards and technical specifications.
- Ensured that tests and inspections are performed, witnessed, and documented in accordance with approved procedures.
- Developed discipline construction schedules and monitored progress to ensure a timely completion.
- Management and administration of resources and distribution of labour force.
- Make sure that the construction materials meet the requirements of the specifications and the designs.
- Calculate the quantity of material, supplies and equipment needed for each individual project.
- Determine project feasibility and direct all resources to the site in a time efficient manner

Name of assignment: Drainage Project for Escuela Mexico

Year: 06/2007-08/2007

Location: Belize

Client: Tunich Nah Consultants

Main project features: Conduct topographical survey to determine and design most feasible drainage solution for flooding problem that the school had.

Position held: Project Manager/Resident Engineer

Activities performed:

- Conduct topographical survey of the school property.
- Determined the most feasible drainage solution.
- Designed and provided detailed construction drawings for storm water drainage system.
- Provided quantity and cost estimates for the client.
- Provided advice to client on future land use areas as determined by the topographical survey.

Expert's contact information:

Email: ramymolina@yahoo.com

Phone: +501-615-1491

Template
for
Monthly Progress Report

United Kingdom Caribbean Infrastructure Partnership Fund
(UKCIF)

UKCIF – Template for Supervising Consultant Monthly Progress Report

1. Executive summary

- Summary statement of progress on key indicators related to implementation, contractor's staffing, social and environment aspects and impacts, health and safety, risks, issues, finances and planned works for the next month.
- Dashboard showing Charts of actual vs. against planned progress; and cumulative against contract schedule, for the following key indicators of progress:
 - Disbursements
 - Procurement
 - Civil Works
 - Staffing (for consultant and contractor)

2. Work carried out during the previous month

- Summary of work carried out over the preceding month including any comments on the contractor's assessment of progress in the Contractor's Monthly Report. Example given below of useful approach.

PROJECT TASK	STATUS (activities and issues)	COMMENTS ON PROGRESS / CONTRACTOR'S HANDLING OF ISSUES	NEXT STEPS/ Plans for getting on track

3. Programme

- Provide narrative on programme highlighting any issues or delays and setting out proposed mitigation to ensure that the project remains on programme. Discussions on programme should cover all project activities (the wider programme), not just those activities for which the contractor has responsibility.
- Full Gantt chart of all activities should be included as an Appendix

4. Staffing

- Largely taken from the contractor's monthly report, but also including anyone employed on the project outside the main construction contract. Include a cumulative summary of person days to date disaggregated by sex (male/female), age and place of birth/nationality (local, regional, international).

5. Stakeholder engagement

- Record of any stakeholder meetings held during the reporting period and summary of any complaints received. Summary of the type of information delivered to stakeholders.
- Minutes of stakeholder meetings and a log of all complaints included as an Appendix.

6. Social and Environment Health and Safety

- Discussion of any environmental incident arising from the works and actions taken/instruction issued to the contractor to deal with them. Record of all Health and Safety incident on site over the preceding month and any actions that have been taken as a result. Highlight of any incidents that have occurred but which are not included in the Contractor's Health and Safety log. This should cover:
 - Pollution prevention, control and management
 - Toxic and hazardous substances control and management
 - Critical natural habitats, biodiversity and ecosystem services
 - Cultural property and heritage
 - Directly affected communities
 - Vulnerable groups
 - Land acquisition and involuntary resettlement
 - Community / worker health and Safety

7. Risks

- Details of any events or circumstances which may jeopardise the completion in accordance with the Contract, and the measures being (or to be) adopted to overcome delays.
- Discussion of key risks and mitigation that has been put in place to try to minimise the impact of these on project delivery. A full risk register should be included as an Appendix.

8. Project finances

- Statement of all payment made during the month (not just the main contractor).
- Details of any new contracts during the reporting period with projected spend profile.
- Updated forward projections of total project expenditure by month to the end of the project.
- Graphic of actual spend against consolidated payment schedules for all contracts under the project.

9. Contract variation

- List of any Variation Orders/Supplementary Agreements issued during the reporting period.
- A table of all Variation Orders/Supplementary Agreements should be included as an Appendix.
- Status of any claims/DAB/arbitration.

10. Work planned during the next month.

- Analysis of works proposed by the contractor for the coming month.
- Workplan for the supervising consultant for the coming month.

11. Appendices:-

- Contractor's monthly report
- Summary programme – updated Gantt Chart
- Staffing (total/ new)
- Incident analysis
- Project risk register (covering main contractor and all other project activities)
- Photographs showing the status of progress of the works / on the Site



Our Ref.: 27/19/436

August 6, 2019

Mr. Errol Gentle
Chief Executive Officer
Ministry of Works
Power Lane
Belmopan
BELIZE, C.A.

Dear Mr. Gentle:

Sixth Road (Coastal Highway Upgrading) Project
No Objection – Consultancy Services for Construction Supervision

We refer to email correspondence dated July 16, 2019, with attachments, in which you requested the Caribbean Development Bank's (CDB) 'no objection' to the consultant's Technical and Financial Proposals for the Supervision of Construction of and the associated draft contract for the captioned Project.

Please be advised that CDB has no objection to the submitted proposals and the use of the recommended simplified form of lump-sum contract for "Phase 1 - Pre-construction Services" and CDB's Consultant's Services (Time-based) Contract for "Phase 2 - Construction and Post-construction Supervision Services".

Kindly submit a signed copy of the Phase 1 contract for our records and a draft copy of the Phase 2 contract for our review.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Nigel Blair".

Nigel Blair
Operations Officer (Civil Engineer)
Economic Infrastructure Division

NB:ab

Att.

cc: Mr. Evondale Moody, Project Coordinator, Project Execution Unit, Ministry of Works (MOW)
Mr. Lennox Bradley, Chief Engineer, MOW



Our Ref.: 27/19/436

August 27, 2019

Mr. Errol Gentle
Chief Executive Officer
Ministry of Works
Power Lane
Belmopan
BELIZE, C.A.

Dear Mr. Gentle:

Sixth Road (Coastal Highway Upgrading) Project
No Objection – Draft Contract for Consultancy Services for Phase 2: Construction Supervision

We refer to email correspondence dated August 21 and 23, 2019, with attachments, in which you requested the Caribbean Development Bank's (CDB) 'no objection' to the draft contract for Phase 2: Supervision of Construction Works for the captioned Project.

Please be advised that CDB has no objection to the draft contract in the sum of two million, six hundred and forty thousand United States dollars (USD2,640,000), as submitted on August 23, 2019, on the condition that details on local and foreign currency payments will be agreed before the contract is signed. Please note that the sum allocated under the loan for these services is two million, four hundred and seventy thousand United States dollars (USD2,470,000). Therefore, the Government of Belize will be required to fund the difference between the contract and allocated sums.

Kindly submit a signed copy of the Phase 2 contract for our records.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Nigel Blair".

Nigel Blair
Operations Officer (Civil Engineer)
Economic Infrastructure Division

NB:ab

cc: Mr. Evondale Moody, Project Coordinator, Project Execution Unit, Ministry of Works (MOW)
Mr. Lennox Bradley, Chief Engineer, MOW



MEMORANDUM

REF : C/IOR/1/41/19 Vol. I (30)
FROM : Financial Secretary, Ministry of Finance
TO : Chief Executive Officer, Ministry of Works

SUBJECT: SIXTH ROAD (COASTAL HIGHWAY UPGRADING) PROJECT - AWARD OF CONTRACT – POLITECNICA INGEGNERIA ED ARCHITETTURA SOCIETA COOPERATIVA

Dated: December 4, 2019

Reference your memorandum PEU/SR/CHUP/19 (80) dated November 27, 2019.

In accordance with Section 21 of the Finance and Audit Reform Act #12 of 2005, approval is hereby granted for you to enter into contract with Politecnica Ingegneria ed Architettura Societa Cooperativa.

The contract with Politecnica Ingegneria ed Architettura Societa Cooperativa for the execution of Consultancy Services for the Construction Supervision of the Sixth Road – Coastal Highway Upgrading Project. This contract is for an amount not exceeding USD2,640,000.00 (BZD5,280,000.00), exclusive of local taxes. This is a part of the Coastal Highway Upgrading Project financed by the Caribbean Development Bank (CDB) and the United Kingdom Caribbean Infrastructure Partnership (UKCIF).

Kindly ensure that a copy of the contract is submitted to the Solicitor General for vetting before the contract is executed.


JOSEPH WAIGHT
Financial Secretary



cc. Accountant General
Auditor General
Solicitor General



Attorney General's Ministry

Tel: (501) 822-2504/822-0519 Fax: (501) 822-3390
Belmopan, Belize, Central America

Ref: LEM/3/01/19 (50)

2nd December, 2019

Mr. Errol Gentle
Chief Executive Officer
Ministry of Works
Power Lane
Belmopan, Cayo

Dear Sir:

Re: Sixth Road- Coastal Highway Upgrading Project Consulting Services for the Engineering Supervision

We refer to the captioned matter.

Please be advised that the Chambers of the Attorney General has thoroughly perused the captioned contract, and recommends that for transparency purposes, provision is made for the witnessing of signatures to the contract upon execution.

If you have any questions or concerns, please do not hesitate to contact our Office.

Regards,


ELISA MONTALVO
SOLICITOR GENERAL