

ঢাকা পানি সরবরাহ ও পয়ঃ নিষ্কাশন কর্তৃপক্ষ



ব্যবস্থাপনা পরিচালক এর কার্যালয়

ওয়াসা ভবন, ঢাকা ওয়াসা

৯৮, কাজী নজরুল ইসলাম এভিনিউ, কাওরান বাজার, ঢাকা।

স্মারকনং- ৪৬.১১৩.৬১৮.০০.০০.G-135(Vol-2)/DESWSP/ ৫৭৬৬

তারিখঃ- ০৭-০৬-২৬

সচিব

স্থানীয় সরকার বিভাগ

স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার, বাংলাদেশ সচিবালয়, ঢাকা।

দৃষ্টি আকর্ষণঃ দৃষ্টি আকর্ষণঃ উপ-সচিব (পাস-২), স্থানীয় সরকার বিভাগ।

ডায়েরী নং: ৪৫৬ তারিখ: ০৩/০৬/২৬

উপ-সচিব (পাস-১/পাস-২/পাস-৩)

সিনিয়র সহকারী সচিব (পাস-১/২/৩)

যুগ্মসচিব (পাস অধিশাখা)
স্থানীয় সরকার বিভাগ

বিষয়ঃ ঢাকা এনভায়রনমেন্টালী সাসটেইনেবল ওয়াটার সাপ্লাই প্রকল্পাধীনে Management, Design and Supervision Consultant (MDSC) হিসেবে নিয়োজিত আন্তর্জাতিক পরামর্শক প্রতিষ্ঠান Mott Macdonald Ltd. Uk এর অধীনে কর্মরত Harvin David Rosales Machado এর A3 Multiple Visa ও নিরাপত্তা ছাড়পত্র ইস্যু করণ প্রসঙ্গে।

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানানো যাচ্ছে যে, ঢাকা ওয়াসার বাস্তবায়নাধীন “Dhaka Environmentally Sustainable Water Supply (DESW)” প্রকল্পটি ADB, EIB ও AFD এর ঋণ সহায়তায় এবং বাংলাদেশ সরকারের অর্থায়নে ঢাকা শহরের পানি সরবরাহ ব্যবস্থা উন্নয়নের জন্য গৃহীত হয়েছে। উক্ত প্রকল্পের আওতায় নারায়ণগঞ্জ জেলার রূপগঞ্জ উপজেলার অন্তর্গত চর গন্ধর্বপুর এলাকায় ৫০০ MLD ক্ষমতাসম্পন্ন পানি শোধনাগার নির্মাণ, আড়াই হাজার উপজেলার বিশনদী এলাকায় মেঘনা নদীর পশ্চিম তীরে ইনটেক পাম্পিং স্টেশনসহ Raw Water Transmission Line নির্মাণ, শীতলক্ষ্যা নদীর পূর্ব তীর থেকে ঢাকার বারিধারা পর্যন্ত Finished Water Transmission Line নির্মাণ এবং ঢাকা শহরের অভ্যন্তরে Water Distribution Reinforcement Line নির্মিত হবে। ৪টি প্যাকেজের আওতায় সম্পন্ন হচ্ছে এবং প্রত্যেকটি প্যাকেজের Detail Design, Design Review এবং Construction Supervision কার্যাবলী সম্পাদনের নিমিত্ত Management, Design and Supervision Consultant (MDSC) সার্ভিসের আওতায় Mott MacDonald Ltd. Uk (JV) এর সহিত গত ৩০ মার্চ/২০১৬ইং তারিখ ৫০ মাসের জন্য চুক্তি স্বাক্ষরিত হয়। পরবর্তীতে No Cost Time Extension এর মাধ্যমে বর্ধিত চুক্তিটি ৩১ জানুয়ারী ২০২৩ইং পর্যন্ত বর্ধিত করা হয়। উল্লেখ থাকে যে, ০১/০২/২০২৩ইং তারিখে অনুষ্ঠিত সরকারি ক্রয় সংক্রান্ত মন্ত্রীসভা কমিটি (CCGP) এর সভায় নতুন করে Management, Design and Supervision Consultant (MDSC) সার্ভিসের আওতায় Mott MacDonald Ltd. Uk (JV) এর সহিত জুন ২০২৪ইং পর্যন্ত চুক্তি সম্পাদনের বিষয়টি অনুমোদিত হয়েছে।

গণপ্রজাতন্ত্রী বাংলাদেশ সরকারের ভিসানীতি স্মারকনং-স্ব: ম: (বহি-২/সপি-৭/২০০৬/২৮৮৩, তারিখঃ ১৯ অক্টোবর ২০০৬) অনুযায়ী আন্তর্জাতিক পরামর্শক প্রতিষ্ঠানে কর্মরত Jr. Resident Engineer Harvin David Rosales Machado ২৭/০১/২০২৩ইং হতে ২৫/০২/২০২৩ইং পর্যন্ত মেয়াদে On Arrival ভিসা নিয়ে ঢাকায় অবস্থান করছেন। ঢাকা এনভায়রনমেন্টালী সাসটেইনেবল ওয়াটার সাপ্লাই (DESW) প্রকল্পের পরামর্শক ফার্ম Mott MacDonald Ltd. Uk এ নিয়োজিত নিম্নবর্ণিত Non-Key Expert এর ৩০ জুন ২০২৪ইং পর্যন্ত A3 Multiple Visa ও নিরাপত্তা ছাড়পত্র ইস্যু প্রয়োজনঃ

Sl. No.	Name	Designation	Passport No.	Purpose/Visa Category	Nationality	Service Period
01.	Harvin David Rosales Machado	Jr Resident Engineer	CO2346932	A3 Visa	Nicaraguan	up to 30 June 2024

এমতাবস্থায়, ঢাকা এনভায়রনমেন্টালী সাসটেইনেবল ওয়াটার সাপ্লাই (DESW) প্রকল্পের MDSC প্যাকেজের অধীনে নিয়োজিত পরামর্শক প্রতিষ্ঠানের Jr. Resident Engineer Harvin David Rosales Machado এর অনুকূলে ৩০ জুন ২০২৪ইং পর্যন্ত নিয়মানুযায়ী A3 Multiple Visa ও নিরাপত্তা ছাড়পত্র ইস্যু করার জন্য স্বরাষ্ট্র মন্ত্রণালয়ের মাধ্যমে পাসপোর্ট ও বহিঃগমন অধিদপ্তরে পত্র প্রেরণ করার প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য সর্বিনয়ে অনুরোধ করা হলো।

সংযুক্তঃ

১। সম্পাদিত চুক্তিপত্রের ফটোকপি-২ কপি।

২। পাসপোর্টের ফটোকপি-২ কপি।

৩। সংক্ষিপ্ত জীবন বৃত্তান্ত ও অভিজ্ঞতার বিবরণী-২ কপি।

ডায়েরী নং: ৪৭৭ তারিখ: ০২/০৬/২৬

যুগ্মসচিব (পাস-১)

যুগ্মসচিব (পিএসবি)

উপসচিব (পাস-১/২/৩)

সিনিয়র সহকারী সচিব (পাস-১/২/৩)

অতিরিক্ত সচিব (পাস)
স্থানীয় সরকার বিভাগ

স্থানীয় সরকার বিভাগ
সচিবের দপ্তর

১) অতিরিক্ত সচিব
২) মহাপরিচালক
৩) যুগ্মসচিব
৪) যুগ্মসচিব (পরিকল্পনা)

১) প্রশাসন
২) নগর উন্নয়ন
৩) উন্নয়ন
৪) পানি সরবরাহ (পাস)
৫) উপজেলা অধিশাখা
৬) ইউপি অধিশাখা
৭) অডিট অধিশাখা
৮) আইন অধিশাখা

ডায়েরী নং: ৪৭৭
তারিখ: ০২/০৬/২৬

স্বাক্ষর

প্রকৌশলী তাকসিম এ খান
ব্যবস্থাপনা পরিচালক
ঢাকা ওয়াসা, ঢাকা।
ফোনঃ ৮১৮৯৬২৬


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ছক-১

০১। প্রকল্পের নাম	ঢাকা এনভায়রনমেন্টালী সাসটেইনেবল ওয়াটার সাপ্লাই প্রজেক্ট (DESWP)		
০২। সুপারিশকারী মন্ত্রণালয়/বিভাগ	স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়		
০৩। বৈদেশিক অনুদান/ঋণ/কারিগরী সহায়তা মুক্তির বিবরণ	ক) মুক্তির নাম ও নম্বর : ADB ঋণ মুক্তি নং- 3051 BAN(SF), তারঃ ২৪/০৪/২০১৪ইং Additional Loan ADB ঋণ মুক্তি নং- 4124 BAN (COL) Additional Loan ADB ঋণ মুক্তি নং- 4126 BAN EIB ঋণ মুক্তি নং- FIN 83852, তারঃ ৩০/০৬/২০১৪ইং AFD ঋণ মুক্তি নং- CBD 1002 01P, তারঃ ২৯/০৬/২০১৪ইং Additional Loan ADF ঋণ মুক্তি নং- CBD 1032 01T		
০৪। কার্যক্রমের বিবরণ	মুক্তির পক্ষঃ ইআরডি ও এজিবি, ইআইবি ও এএফডি ও ঢাকা ওয়াসা। মুক্তির নামঃ Consultancy Service for MDSC for Design Review and Supervision of Construction river water Intake, Raw Water Pipelines and 500 MLD WTP, detail design supervision for the Construction work at work of two pipe line packages under Dhaka Environmentally Sustainable Water Supply Project (DESWSP), DWASA. মুক্তির পক্ষঃ ঢাকা ওয়াসা এবং Mott Macdonald Ltd. (UK).		

ছক-২

ক্রঃ নং	ভিন্সা প্রার্থীর নাম	পাসপোর্ট নম্বর	জাতীয়তা	বাংলাদেশে আগমনের তারিখ	বর্তমান ভিন্সার স্টেপ এবং মেয়াদ	চাহিদাকৃত ভিন্সার স্টেপ এবং মেয়াদ	বাংলাদেশে যোগাযোগের ঠিকানা এবং মোবাইল নম্বর
1	Harvin David Rosales Machado	CO2346932	Nicaragua	27.01.2023	On Arrival, 25.02.2023	A3 Type, 30 June'2024	House # 28 (2 nd Floor), Road # 38, Gulshan-1, Dhaka. Mobile # 01326-247324


০২.০২.২০২৩
Md. Azizul Haque
Superintending Engineer &
Project Director
PMU, DESWSP, Dhaka WASA.

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6
VISA
JAN 25 2023

6

VOA/230127/104
VISA ON ARRIVAL
Date of Issue: 27.01.23
Date of Expiry: 25.02.23
Employment Paid
or unpaid prohibited
IMMIGRATION POLICE
HAZRAT SHAHJALAL INTERNATIONAL AIRPORT
DHAKA, BANGLADESH
29/01/23

30
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**INFORMATION
AT A GLANCE**

01	Name	Harvin David Rosales Machado
02	Father's Name	Félix Pedro Rosales Avendaño
03	Place & Date of birth	Nicaragua, Managua (17/08/1997)
04	Nationality	Nicaraguan
05	Passport No. & Issuing date	C02346932 (12/05/2018)
06	Passport issuing Authority	Nicaragua Government
07	Permanent Address	Managua, Batahola Norte, ZIP Code 12062
08	Present Address	Managua, Batahola Norte, ZIP Code 12062 (House No. 28 (2nd Floor), Road No. 38, Gulshan 1, Dhaka 1212, Bangladesh)
09	Educational Qualification	Civil Engineer
10	Professional Experience	3 years of experience
11	Name of Organization	Fichtner Water & Transportation
12	Designation	Jr Resident Engineer
13	E-mail address	harvin.rosales@fwt-mobil.de
14	Telephone number (Nicaragua)	+505 8852-1645
15	Telephone number (Bangladesh)	+880 1326-247324
16	Marital Status	Single
17	Relatives in Bangladesh	None

Signature of Applicant: _____

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**INFORMATION
AT A GLANCE**

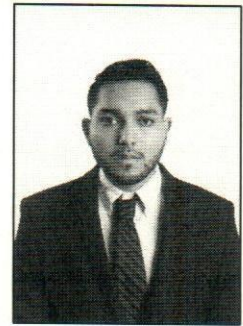
01	Name	Harvin David Rosales Machado
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16	Marital Status	Single
17	Relatives in Bangladesh	None

Signature of Applicant: _____

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Harvin David Rosales Machado

Personal Information



Master degree in Water Engineering
Master degree in Project Management
Civil Engineer
Business Administrator

Date of birth: 17/08/1997
Cellphone: +505 8852-1645
Residency: Managua, Nicaragua
Email: harvindavidrosmac@gmail.com
Skype: harvindavidrosmac@gmail.com

Resume

Graduated from the Central American University (UCA) with a bachelor's degree in Civil Engineering and from the University of Managua (UdeM) with a bachelor's degree in Business Administration. I have a Master's Degree completed at the European Postgraduate Center (CEUPE) in Project Management. Currently pursuing a Master's Degree in Water Engineering at the Distance University of Madrid (UDIMA). I'm a serious, responsible, enthusiastic, honest, integrated, persevering, hard-working person with a great sense of professional ethics.

Skills and Aptitudes

- Autodidact
- Adaptability
- Digital Skills
- Administrative and Organizational skills
- Good team work
- Proactive

Softwares

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Microsoft Project
- Microsoft Visio
- Microsoft Publisher
- Microsoft Access
- AutoCAD 2D
- AutoCAD Civil 3D
- Revit Architecture
- Revit Structure
- ETABS
- SAFE 2016
- SewerCAD/Gems
- WaterCAD/Gems
- HEC-RAS
- Epanet
- H-Canales

Languages

- Spanish (Native)
- English (Good)
- German (Basic)

Academic - Annex I

Master in Water Engineering

Distance University of Madrid (UDIMA) with the Open School of Development in Engineering and Construction (EADIC)

Spain | 2021 - 2023

- Master's Degree in Water Engineering.

- I. Module: Introduction to the Integral Water Cycle. Hidrology and Hydraulics.
- II. Module. Water Distribution Networks.
- III. Module. Module of Calculation, Design, Construction and Maintenance of Potable Water Treatment Stations
- IV. Module. Exploitation of Urban and Supply Networks
- V. Module. Calculation, Design, Construction and Maintenance of Wastewater Treatment Plants
- VI. Module. Desalination and Water Reuse: Design and Construction of Plants and Facilities
- VII. Module. BIM applied to Water Infrastructures
- VIII. Module. Sanitation Networks Calculation, Design, Construction and Maintenance. Calculation and Works Against Floods and Floods.

Postgraduate in Strategic and Financial Management of Companies and Agile Methodologies for Engineering and Construction Professionals

Open School of Development in Engineering and Construction (EADIC)

Spain | 08/2021 - 11/2021

- Posgraduate Degree in Bussines Administration.

- I. Module. Strategic Business Management
- II. Module. Applied Economics and Fundamental of Finance.
- III. Module. Scrum Master Certified Expert

Master in Project Management

European Postgraduate Center (CEUPE)

Spain | 2020 - 2021

- Master's Degree in Project Management.

- I. Module. Strategic Management
- II. Module. Project Financing
- III. Module. Project Planning and Control
- IV. Module. Quality Management
- V. Module. People Management
- VI. Module. Legal Aspects
- VII. Module. Communication and Sales

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Curriculum Vitae – Harvin David Rosales Machado

	VIII. Module. Integration, Planning Processes and PMI Certification
Business Administration University of Managua (UdeM) <i>Nicaragua 2017 - 2021</i>	- Bachelor's Degree in Business Administration
Civil Engineering Central American University (UCA) <i>Nicaragua 2015 - 2020</i>	- Bachelor's Degree of Civil Engineer.
High School La Salle Pedagogical Institute <i>Nicaragua 2004 - 2014</i>	- Degree in Sciences and Letters.

Academic Awards - Annex II

Cum Laude Central American University (UCA) <i>Nicaragua 2015 - 2020</i>	- Diplomas of academic excellence obtained in all the years since the beginning of the civil engineering career. - Graduated with honors (Cum Laude) upon completion of the Civil Engineering degree.
Best student of the ninety-third generation of graduates La Salle Pedagogical Institute <i>Nicaragua 2003 - 2014</i>	- Diplomas of academic excellence obtained in all years from primary to the completion of high school. - Diploma and recognition that accredits me as the best student of the ninety-third generation of graduates of the La Salle Pedagogical Institute.

Languages - Annex III

English University of Managua (UdeM) <i>Nicaragua 2021</i>	- 20 units of basic levels on the Rosetta Stone platform
German Central American University (UCA) <i>Nicaragua 2014 - 2016</i>	- 12 basic levels.
English English Language Institute (ELI)	- TOEFL preparation course. - 2 advanced levels of speaking and listening.

Curriculum Vitae – Harvin David Rosales Machado

Nicaragua | 2008 – 2013

- 14 basic levels.

Training and Specialized Courses - Annex IV

<p>WaterCAD Intermediate Open School of Development in Engineering and Construction (Eadic) <i>Spain 04/2021</i></p>	<ul style="list-style-type: none"> - Topic 1. Introduction to WaterCAD. - Topic 2. Calibration and cost analysis of a system in WaterCAD.
<p>Sanitation Networks: Calculation, design, construction and maintenance. Calculation and works against avenues and floods Open School of Development in Engineering and Construction (Eadic) <i>Spain 01/2021</i></p>	<ul style="list-style-type: none"> - Topic 1. Analysis and Design of Pluvial and Sanitation Networks with SewerCAD. - Topic 2. Optimization and analysis of hydrological events in stormwater and sanitation networks with SewerCAD. - Topic 3. Calculation of floods using HEC-RAS software. - Topic 4. Calculation of floods in non-permanent regime using HEC-RAS software.
<p>BIM applied to Civil Works with Autodesk Civil 3D II Open School of Development in Engineering and Construction (Eadic) <i>Spain 12/2020</i></p>	<ul style="list-style-type: none"> - Topic 1. Pipe networks. - Topic 2. Piping networks under pressure. - Topic 3. Subsembly Composer. - Topic 4. Railway Works and Vehicle Tracking.
<p>Zoom Conversatory Temixa Consulting <i>Peru 12/2020</i></p>	
<p>Workshop Macros in Excel Temixa Consulting <i>Peru 11/2020</i></p>	
<p>Excel 2019 Workshop – New Functions Temixa Consulting <i>Peru 11/2020</i></p>	
<p>Workshop Microsoft Office Specialist: Excel Expert Temixa Consulting <i>Peru 11/2020</i></p>	
<p>Workshop The Future of Excel Temixa Consulting <i>Peru 11/2020</i></p>	

Curriculum Vitae – Harvin David Rosales Machado

<p>Scrum Master Intermediate Open School of Development in Engineering and Construction (Eadic) Spain 10/2020</p>	<ul style="list-style-type: none"> - Topic 1. Traditional Approach vs. Agile Approach. - Topic 2. Scrum. - Topic 3. Role and Responsibility of the Scrum Master. - Topic 4. Concepts and tools for estimation, planning and monitoring in agile environments.
<p>Autodesk Revit Structure Basic + Intermediate Open School of Development in Engineering and Construction (Eadic) Spain 10/2020</p>	<ul style="list-style-type: none"> - Topic 1. Structural interface and file coordination. - Topic 2. Modeling of structural elements (Concrete and Steel). - Topic 3. Analytical model, export and creation of structural families. - Topic 4. Annotation, views and documentation.
<p>Calculation of structures with CypeCAD Open School of Development in Engineering and Construction (Eadic) Spain 10/2020</p>	<ul style="list-style-type: none"> - Topic 1. Previous tasks and initial configuration. - Topic 2. Definition of the structural elements and introduction of loads. - Topic 3. Analysis of results, solution of the structure and written documentation. - Topic 4. Export plans and BIM model.
<p>Autodesk Plant 3D Basic + Intermediate Open School of Development in Engineering and Construction (Eadic) Spain 10/2020</p>	<ul style="list-style-type: none"> - Topic 1. Introduction to AutoCAD Plant 3D. - Topic 2. PID design. - Topic 3. 3D modeling. - Topic 4. Documentation in AutoCAD Plant 3D.
<p>Mini Specialization in Excel and Power BI Temixa Consulting Peru 08/2020</p>	
<p>Earthquake Resistant Design of Buildings with BIM Interoperability with ETABS Civil Technical Consulting Build Natur Ecuador 08/2020</p>	<ul style="list-style-type: none"> - Type Building, 12 floors - includes 2 basements. - Pre-dimensioning of columns, beams and slab. - Definition of material properties. - Assignment of loads in the plane in membrane-type elements. - Generation of inelastic acceleration spectrum. - Lateral force check based on spectral modal analysis.

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- Floor drift check and control.
- Manual calculations and verification via software of the design of abutments by confinement, strong column-weak beam.
- Generation of load combinations and use of envelopes for analysis.
- Design based on displacement, bending, axial, shear and torsion results.
- Time history analysis with scaled accelerograms for the project implementation site.
- Instruction to PUSH OVER.
- Soil-structure interaction.

Design and Calculation of Metallic Structures
Open School of Development in Engineering and
Construction (Eadic)
Spain | 08/2020

- Topic 1. Design and calculation of metallic structures I.
- Topic 2. Design and calculation of metallic structures II.
- Topic 3. Design and calculation of industrial buildings I.
- Topic 4. Design and calculation of industrial buildings II.

Autodesk Revit Structure with BIM Standard
Civil Technical Consulting Build Natur
Ecuador | 07/2020

- Introduction to BIM Concepts and BIM Standard.
- BIM information management ISO 19650-1.
- Components of the BIM execution plan (PEB).
- My first steps with Revit.
- Creation of a structure project with Revit.
- Modeling of concrete structures – Part I.
- Modeling of concrete structures – Part II.
- Visualization control of the BIM model.
- Sectorization of the structures project.
- Inclusion of Reinforcements in Concrete Elements.
- Concrete and reinforcement quantifications.
- Generation of 2D and 3D construction details.
- Annotation tools (Dimensions and labels).
- Presentation of structural plans.
- Study of export formats.

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Autodesk Revit Architecture 2019

Online Training Center Specialized in Architecture
Peru | 07/2020

- Review of BIM structural models.
- Topic 1. Introduction.
- Topic 2. Walls.
- Topic 3. Editing tools.
- Topic 4. Personalized walls.
- Topic 5. Doors and Windows.
- Topic 6. Work with slabs.
- Topic 7. Introduction to the Final Project.
- Topic 8. Components.
- Topic 9. Slabs and floors.
- Topic 10. Courtyard Walls.
- Topic 11. Columns.
- Topic 12. Beams.
- Topic 13. Foundations or Foundations.
- Topic 14. Stairs.
- Topic 15. Ceiling or ceiling.
- Topic 16. Topographic surfaces.
- Topic 17. Documentation.
- Topic 18. Dimensions and texts.
- Topic 19. Generation of views.
- Topic 20. Renders, plans and printing.

Autodesk Civil 3D Basic - Intermediate

Open School of Development in Engineering and Construction (Eadic)
Spain | 07/2020

- Topic 1. Creation of surfaces and alignments.
- Topic 2. Creation and editing of linear works, intersections and roundabouts.
- Topic 3. Creation of plots and earthworks.
- Topic 4. Analysis of the 3D model, IFC export, viewers.

Scheduling of works with Microsoft Project

Multidisciplinary Training and Consulting Institute ITA Consulting Group (IMCYC)
Nicaragua | 06/2020

- Work environment of the tool.
- Tools for the programming of works.
- Application to a vertical construction project.

Autodesk Civil 3D 2018

National University of Engineering – Department of Postgraduate Studies and Continuing Education
Nicaragua | 01/2018

- Introduction to Civil 3D.
- Initial settings in Civil 3D.
- Preparation of topographic data.
- Coordinate format.
- Surfaces.
- Road design.

Curriculum Vitae – Harvin David Rosales Machado

- Administration and Management of the Contract (management of appraisals, change orders, monitoring of the schedule of physical and financial execution, compliance with contractual conditions).de las condiciones contractuales).

Consortium: Fichtner Water & Transportation – Estructuristas Consultores

Client: Executive Hydroelectric Commission of the Lempa River (CEL)

Country: El Salvador

Position: Assistant Design Engineer

Project: Design of Treatment Plant with Power Generation with Biogas in the Acelhuate River

08/2021 – 08/2022

Main characteristics of the project:

- Design of a wastewater treatment plant (WWTP), to treat wastewater from the four main collectors (CP-1, CP-2, CP-3, CP-5), and to take advantage of its energy potential for production of electrical energy by the combustion of biogas, which is generated by an anaerobic treatment process.

Positions and functions performed:

- Optimization of the location of the feasibility study of the main collector.
- Geometric design of the main collector of DN 1200 mm, Long. 3,200m. In HFD, PVC and RFC pipes.
- Edition of the topography for the generation of the Work Surface.
- Elaboration of Profile Floor Plans and Collector Sections in Civil 3D.
- Calculation of volumes of land.

Company: Fichtner Water & Transportation

Client: Royal Commission for Riyadh City

Country: Saudi Arabia

Position: Database Editor Engineer

Project: Design of the Stormwater Network of Riyadh City

08/2021 – 08/2022

Main characteristics of the project:

- Total digitization of the current and future storm drainage network in the city of Riyadh, Saudi Arabia.

Positions and functions performed:

- Database digitization.
- Digitization of plans in pdf and acad format in editable attribute tables in QGIS.

Company: Central American University (UCA)

Client: Roncalli Juan XXIII Association

Country: Nicaragua

Main characteristics of the project:

- Designer engineer from the Central American University (UCA) in conjunction with the

- Assemblies, subassemblies, cross sections and corridor modeling.
- Plots.
- Grading (Terraces - Cuts and Fills).
- Alignments menu.

2nd Regional Congress of Pathology and Recovery of Structures

Central American University (UCA)

Nicaragua | 06/2015

Work Experience - Annex V

Company: Fichtner Water & Transportation

Client: Nicaraguan Aqueduct and Sewer Company (ENACAL)

Country: Nicaragua

Position: Supervising Works Engineer

Project: "Managua Wastewater Treatment Plant: Complementary Measures - Lot 1" and "Managua Wastewater Treatment Plant: Energy Efficiency and Reduction of Greenhouse Gas Emissions - Lot 2"

08/2020 - Currently working

Main characteristics of the project:

- Development of civil works and equipment of complementary works for the PTAS of the city of Managua, aimed at optimizing the processes of treatment of wastewater and biological sludge through:
- Construction and equipping of new buildings for fat screening, mechanical thickening of sludge and pumping of primary sludge.
- Construction and equipment of new automatic fat screening systems.
- Construction and equipping of new mechanical thickening systems for biological sludge.
- Equipment of the "EBS" and "EBEC" pumping stations with new automatic gate systems and solid waste management.
- Supply and assembly of a new SCADA system to integrate the new components.
- Project executed under FIDIC contract conditions.

Positions and functions performed:

- Supervision of the construction of Civil Works.
- Monitoring of the execution of equipment works on site.

Curriculum Vitae - Harvin David Rosales Machado

Position: Design Engineer

Project: Design of Multifamily Housing for the Cooperative Solidaridad, Matagalpa.

02/2020 - 07/2020

Roncalli Juan XXIII association for the multi-family housing project of the Cooperative Solidaridad R.L.

Positions and functions performed:

- Calculation of earth movements.
 - Construction of terraces.
 - Volume table (Cut and fill).
 - Surface of the streets and avenues.
 - Orientation of storm drainage.
 - Plans of ground movement.
 - Technical specifications.
- Structural design of the multifamily building.
 - Memory of structural calculation.
 - Preparation of construction plans.
 - Technical specifications.
- Hydrosanitary design of the multi-family building.
 - Drinking water and residual water calculation report.
 - Preparation of construction plans.
 - Technical specifications.
- Electrical design of the multi-family building.
 - Electrical calculation memory.
 - Preparation of construction plans.
 - Technical specifications.
- Planning of works.
 - Gantt chart and critical path calculation (Standard model).
 - Gantt chart and critical path calculation (Mutual Aid Model).
- Investment budget.
 - Take-off.
 - Project offer.

Company: Fichtner Water & Transportation

Client: Nicaraguan Aqueduct and Sewer Company (ENACAL)

País: Nicaragua

Main characteristics of the project:

- Lot 3: Improvement and extension of the drinking water system of the city of Granada.

Curriculum Vitae – Harvin David Rosales Machado

Position: Supervising Support Engineer

Project: Drinking Water and Sanitation Project
for the City of Granada. Lot 3 and 4

01/2019 – 01/2020

- Rehabilitation of metal tanks on the ground (Cocoon System).
- Rehabilitation and expansion of the main network, 5 km of HFD DN100-600 pipe.
- Rehabilitation and expansion of the distribution network, 30 km of PVC pipe DN50-250.
- Supply and installation of household connections, 4,500 household connections.
- Construction of the drinking water reimpulsion pumping station, Pochote system.
- Lot 4: Expansion of the Granada Wastewater Treatment Plant (PTAS).
 - Construction of a new facultative lagoon (No. 2.2) in the PTAS and its respective interconnection systems.
 - Fitting out of module No. 2 of the PTAS UASB reactor.
 - Rehabilitation of the Santa Emilia wastewater pumping station.
 - Rehabilitation of the discharge line of the pumping station.

Positions and functions performed:

- Supervision of the construction of Civil Works.
- Monitoring of the execution of equipment works on site.
- Administration and Management of the Contract (management of appraisals, change orders, monitoring of the schedule of physical and financial execution, compliance with contractual conditions).
- Check of as Built Plans.

Personal References

Fichtner Water & Transportation GmbH Branch Office El Salvador	Msc. Claudia Regina Gudiel Alvarenga <i>Branch Manager</i> Cellphone: +505 8706 - 3222 Email: claudia.gudiel@fwt-mobil.de
Fichtner Water & Transportation GmbH Branch Office Nicaragua	Msc. Félix Pedro Rosales Avendaño <i>Branch Manager</i> Cellphone: +505 8855 - 4893 Email: felix.rosales@fwt-mobil.de
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National University of Engineering (UNI)	Msc. Yader Andrés Jarquín Montalván <i>Structural Consultant and Professor at the National University of Engineering</i> Cellphone: +505 8727 - 0720 Email: yader.jarquin@yahoo.com
Central American University (UCA)	Msc. Otoniel Antonio Baltodano Peña <i>Coordinator of the Faculty of Science, Technology and Environment of the Central American University</i> Cellphone: +505 8878 - 1102 Email: ingenieriacivil@uca.edu.ni

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this resume correctly describes myself, my qualifications and my experience.



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SUBCONTRACTOR AGREEMENT

between

Fichtner Water & Transportation GmbH

Sarweystrasse 3 70191 Stuttgart

hereinafter referred to as 'Fichtner'

and

Harvin David Rosales Machado

Do. Batahola Norte, Portón Principal INISER 4 ½ C. N. 10 VRS. E.
Managua/Nicaragua

hereinafter referred to as 'Subcontractor'

Project number: 610-1310

Project: Dhaka Environmentally Sustainable Water Supply Project

Original to: Original: -Controlling

Scan to: Project Manager

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Annexes

- Guidelines on Workplace Health, Safety and Environmental Protection
- Obligation to Comply with Confidentiality and Data Protection
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- Data Protection Information
- Explanation to the invoice template
- Invoice Template (send as digital version)
- Handout on the Essential Elements of the CMS for Business Partners of Fichtner GmbH & Co. KG (digital version)
- Terms of Reference

1 Subject of Agreement

In order to execute the services contractually agreed by Mott MacDonald Limited (UKG) in associates with Fichtner GmbH & Co. KG (GER), Euroconsult Mott MacDonald (Netherland) & Yooshin Engineering Corporation (KOR), BCL Associates Limited (BAN), SARM Associates Limited (BAN), Associates for Development Services Limited (BAN) with DWASA in the Main Contract, Fichtner is contracting Subcontractor to provide certain subsidiary services. Subcontractor undertakes to render the subsidiary services entrusted to him in such a way that Fichtner fulfills its obligations as set out in the Main Contract. The aim of this Agreement is to incorporate these subsidiary services into the project as a whole as precisely and with as little friction as possible.

Prior to commencing his work, Subcontractor shall take note of the provisions of the Main Contract that concern his tasks see Annexes.

2 Basis of Agreement

On the basis of the Main Contract between
Fichtner Water&Transportation GmbH
(hereinafter 'Fichtner')
and

DWASA
Dhaka Water Supply and Sewerage Authority, WASA Bhaban, 98, Kazi Nazrul Islam Avenue (8th Floor)
Kawran Bazar, Dhaka-1215, Bangladesh
(hereinafter 'Client')

this Subcontractor Agreement is entered into with Harvin David Rosales Machado, in which the Subcontractor undertakes to render completely and free of defects the services set out under Clause 3.

3 Scope of Services

The services to be rendered by Subcontractor are as follows:

Tasks of a Junior Supervision Engineer.

Reports to: Senior Resident Engineer

Supervises: International and national construction works, including

- o WTP / PS
- o Raw Water Pipeline
- o Intake & PS
- o P2 Pipeline
- o P3 Pipeline

Coordinates with: Other international and national team members.

Cooperates in the following activities:

- Supervision of construction
- Review of Contractor's Construction Programme
- Contractor's construction method statement reviews

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- Procedures for inspection of setting-out, construction, equipment and materials
 - Verifying contractors' performance, reporting, records, changes, claims, invoices
 - Check/measure of completed work stages
 - Random independent testing, third party inspection,
 - Check delivery to site and during/after installation
 - Maintain a daily diary / record of site activities
 - Inspection of setting-out, construction, equipment, and materials
 - Attend and take notes for weekly progress meetings with the Contractors
 - Monitor works, property, personnel, public safety and compliance with health and safety procedures
 - Supervise site testing of the Works, and commissioning tests prior to issuing Taking Over certificates
 - Cooperate in assessing contractor's claims and recommend appropriate actions

4 Collaboration between Contractual Parties

4.1 General Obligations of Subcontractor – Subcontractor's Services

The Subcontractor undertakes to render the following services:

- The Subcontractor undertakes to execute his contractually agreed subsidiary services on schedule and in compliance with this Agreement. At the end of each calendar month, he shall upon request inform Fichtner by means of written situation reports of the progress of the works. He shall report any hindrances to the works irrespective of their cause.
- The Subcontractor shall inform Fichtner without delay in writing of any risks to fulfilling his subsidiary services and/or risks to the Project as a whole that become known to him (e.g. time scheduling, scope/quality of the works, availability of information, and collaboration with Client and/or stakeholders) and, to the extent that these concern his scope of services, he shall propose remedial measures.
- Subcontractor shall comply with Fichtner's instructions concerning the works at all times. The parties agree that Fichtner may order a change to the services if it deems this necessary for the overall project or parts thereof. In other respects, Subcontractor is not bound to obey Fichtner's instructions concerning the manner in which he performs his works, and he undertakes his contractual services under his own responsibility.
- To the extent that no agreements to the contrary have been reached between the contractual parties in specific cases, no concrete stipulations arise from this Agreement, or the place of performance is not determined necessarily by the performance of the services, the Subcontractor is at liberty in particular to decide on where he works and his times of work, and in this respect he is not subject to any instructions issued by Fichtner. The Subcontractor is not tied into Fichtner's work organization, thus he is neither authorized to give instructions to Fichtner's employees, nor is he bound by instructions given by those employees.
- The Subcontractor undertakes to complete within the allotted time the online training courses assigned to him by Fichtner. A maximum of one consultant hour may be invoiced for the online training courses.

4.2 General Obligations of Fichtner

Fichtner undertakes to render the following services:

- nomination of a responsible Project Manager - Ulf Meyer-Scharenberg - as liaison person with whom consultations can be held and binding agreement reached on specific stipulations which are to be recorded in writing;
- provision of and, as far as necessary, explanations of all relevant information, operating data and documents needed for project work in good time and in full;

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- dealing promptly, but at the latest within ten (10) working days, with any questions that arise or decisions that are to be taken during project handling that affect the Subcontractor's services.
 - Fichtner will take out health insurance (*HDI Versicherungen*) for the Subcontractor for the duration of the Subcontractor's work.

4.3 Necessary Working Equipment

For information security/data protection reasons, Subcontractor will be provided with a laptop computer including software, camera and other accessories. Fichtner will issue Subcontractor with an email address for the duration of the Subcontractor Agreement.

5 Deadlines

Subcontractor's assignment shall commence on the starting 25.01.2023 and terminate on the finish 30.06.2024.

Should the Subcontractor fail to meet the agreed deadline or deadlines for reasons for which he is responsible, Fichtner is entitled to optionally render the services or a part thereof itself, or to engage third parties for this purpose. The Subcontractor shall reimburse Fichtner for the resulting costs (damages). Fichtner reserves the right to lodge additional claims.

The Subcontractor's entitlement to remuneration is limited in such a case to that completed part of the services which has been rendered satisfactorily and on time, and which Fichtner can make use of in the project as a whole as laid down by the contractual parties under Clause 1 of this Agreement.

6 Liability

The Subcontractor's liability shall be governed by the relevant statutory regulations according to the law applicable to this Agreement.

In cases of slight negligence or acts of omission by the Subcontractor, liability is limited to the amount of the remuneration that is to be paid by Fichtner on the basis of this Agreement.

This does not apply for:

- grossly negligent or deliberate acts or omissions by the Subcontractor;
- fatalities, physical injuries or damage to health;
- infringement of copyright, patent rights or any other intellectual rights of third parties.

7 Remuneration

The remuneration depends on the hours worked. Subcontractor's activities are remunerated at a daily rate of:

205 USD

but not exceeding 4,500 USD/month. Partial days will be billed pro rata based on 7.5 hours.

Only time expenditure that is customary and approved by the Client may be invoiced by Subcontractor. In exceptional justified cases, claims for deviations from the usual time scope may be lodged if plausible reasoning is submitted in writing and approval has been given by Fichtner. Subcontractor has to submit timesheets at the end of each month.

7.1 Incidental Expenses

Incidental expenses will be reimbursed to the extent that these are necessary for rendering the services and are actually incurred. This includes the following:

- air travel: up to 4 return flights per year Nicaragua – Dhaka will be purchased by Fichtner
- supplementary travel costs (travel to/from airport, COVID tests or similar, visa, work permit)
- accommodation will be provided by Fichtner and/or Mott MacDonald
- daily allowance of **50 USD** for work in Bangladesh
- local transport will be provided by the project through Mott MacDonald. Otherwise, costs are reimbursed

Agreement shall be reached with Fichtner before such costs are incurred. They shall be invoiced on a monthly basis against presentation of supporting documents.

7.2 Taxes, Levies and Insurance Cover

The parties agree that they cooperate on a freelance basis and that an employment relationship that is subject to social insurance will not be entered into. Accordingly, neither income tax nor social security contributions will be retained and paid over by Fichtner. The Subcontractor is himself responsible for fulfilling tax and social-security obligations arising from this collaboration, in particular provision of an adequate pension plan and for healthcare and nursing care insurance.

By no later than the date on which he commences his work, the Subcontractor shall inform Fichtner whether and to what extent he has a private pension insurance policy to insure himself in old age and in the event of disability as well as whether and to what extent he has a health insurance policy. Fichtner is entitled to demand proof of such policies and to demand written assurance that the Subcontractor has adequate social security cover. Voluntary participation in a statutory healthcare insurance program shall also count as adequate health insurance.

The Subcontractor consents to Fichtner filing a request with the pension insurance provider in accordance with Section 7a of the fourth volume of the German Social Security Code (SGB IV) in order to verify that the Subcontractor is not pursuing any activities which are subject to compulsory insurance contributions. The Subcontractor will actively assist in this process of establishing his insurance status and will provide Fichtner with the required information about his other activities (including supporting documents). Subcontractor will notify Fichtner of any changes to his circumstances in writing without delay and without being prompted to do so. The same applies to official notifications of his insurance status with regard to his activities for other companies.

To the extent to which the services to be rendered under this Agreement are subject to German value added tax, this shall be billed at the statutory rate as a separate item.

If Subcontractor operates as a small firm with regard to value added tax, this is to be noted on the invoice.

Subcontractor's entrepreneurial status must be proven to Fichtner by means of a business registration valid at the time of conclusion of this Agreement or a current excerpt from the commercial register.

Subcontractor shall take out insurance policies at his own cost, e.g. for private liability cover.

If Subcontractor has his registered office in Germany, the insurance policy shall cover the "special conditions and risk descriptions for the professional liability insurance of architects, civil engineers and consultant engineers".

Fichtner may refuse to make payments until Subcontractor provides evidence that such business or professional liability insurance exists.

8 Terms of Payment

Invoices for partial payments may be called for at agreed dates or in appropriate time intervals for verifiably performed services.

The Subcontractor shall submit his invoices monthly using the attached template (Invoice Template + Template Explanation) and send it as a PDF attachment only to the following email address: invoice.fwt@fichtner.de

The project number communicated by Fichtner must be noted accordingly on all invoices issued. A separate invoice must be issued for each project.

If German value added tax has to be listed on the invoice, the Subcontractor must submit an invoice meeting the requirements of Section 14 of the German Value Added Tax Act (UStG), otherwise Fichtner reserves the right to pay only the net sum of the invoice.

The invoice shall include details of a bank account.

The invoice will be paid to a set bank account which is stored in the system of FICHTNER GmbH & Co. KG. This bank account must also be stated in every one of the Subcontractor's invoices. Splitting the amounts into different payments and/or onto multiple accounts is not possible.

For organizational reasons, no other bank accounts can be stored. All payments will be made to the one bank account stored in the system.

For all invoiced items, the Subcontractor shall submit appropriate supporting documents together with the electronic invoice by email to the above-mentioned email address by the 3rd working day of the following month. The following documents, for example, are expected:

- monthly activity statements with documentation of acceptance by Project Manager
 - original receipts and vouchers for incidental travel expenses in compliance with taxation regulations
 - for air travel whose costs are to be reimbursed by Fichtner: airline tickets, boarding passes, copy of relevant pages in passport (personal data as well as entry and exit stamps of the country concerned).
- Payment will be made by Fichtner to Subcontractor following the Project Manager's approval not later than 20 days after actual receipt of invoices.

9 Results of Work, Inventions

All results and documents arising during execution of this Agreement will become Fichtner's property, and Fichtner will have exclusive rights to these. There is no obligation to make a special payment for these.

This applies in particular to inventions, suggestions for technical and organizational improvements as well as to all patents, industrial designs, and know-how. To the extent that the associated intellectual property and usage rights are transferable, these shall be transferred to Fichtner when they are created.

The results of work shall be submitted by the Subcontractor to Fichtner electronically in the standard software formats in current use at Fichtner and, depending on the specific task, also as hardcopies. It is the

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Subcontractor's responsibility to acquire the licensed software needed for his tasks. The Subcontractor will be informed in good time by Fichtner of any changes in the standard software.

10 Confidentiality, Prohibition of Competition

The Subcontractor shall treat all privileged matters concerning Fichtner and Fichtner's clients which become known to him during execution of this Agreement with complete confidentiality and shall not use such knowledge for his own purposes. This stipulation will apply beyond the period of the Agreement. If there is any doubt regarding confidentiality, the Subcontractor shall request Fichtner's instructions.

During the time of his work on behalf of Fichtner's clients^{xx/24} months the Subcontractor shall not act as a business competitor to Fichtner nor to enter-prises affiliated with Fichtner according to Section 15 of the German Stock Corporation Act (AktG).

The Subcontractor shall issue publications concerning the above work only with the previous agreement in writing of and following consultations with Fichtner.

11 Subcontracting

Should the Subcontractor for his part wish to contract out work arising from this Agreement, this requires the prior written approval of Fichtner who shall be informed beforehand in good time.

Through contractual rulings with his own subcontractors, the Subcontractor shall take steps to ensure that these enter into the same obligations vis-à-vis the Subcontractor as the Subcontractor does vis-à-vis Fichtner under the terms of this Agreement. This applies in particular to Clauses 10, 11 and 12. The Subcontractor is entitled and obligated to use the letter declaring his commitment vis-à-vis Fichtner to comply with the Minimum Wage Law for the purposes of obtaining such a commitment from his own subcontractors. When requested to do so, the Subcontractor shall provide proof to Fichtner that subcontractors have declared their commitment to comply with the Minimum Wage Law.

12 Information Security

The Subcontractor is obligated to safeguard all information and systems, which are relevant within the context of rendering the services, against unauthorized access, alteration, destruction or other misuse in accordance with the state of the art.

In doing so, the Subcontractor shall take suitable and reasonable technical and organizational measures to ensure a level of protection commensurate with the risk in terms of integrity, confidentiality, availability and resilience of all information and systems which require protection and are relevant within the context of rendering the services.

Organizational and technical precautions are reasonable when the effort required for them is not disproportionate to the risk of failing to attain the protection goals specified in paragraph 2.

In doing so, the Subcontractor shall pursue a continuous process of improvement, i.e. he will check all influencing parameters with the aim of improving his security level.

The Subcontractor is obligated to report to Fichtner without delay and in writing any security incidents in his organization that have or could have an effect on the availability, integrity, confidentiality or resilience of all information and systems - both Fichtner's and the Subcontractor's - which require protection and are relevant within the context of rendering the services (security incident).

In such cases, the report is to be made to Informationssicherheit@fichtner.de.

Memo NO - 46.113.618.00.00. W-12/V-3) DESWSP
/2243 Dt. 4-6.2020

REVISED CONTRACT AGREEMENT FOR CONTRACT
VARIATION No. 28 (MDSC Amendment to VO#28 No cost
extension)

CONTRACT FOR CONSULTANT'S SERVICES
(Time-Based)

Between

Dhaka Water Supply and Sewerage Authority (Dhaka WASA)

and

Mott MacDonald Limited (UK) in association with Fichtner GmbH & Co. KG
(GER), Euroconsult Mott MacDonald (Netherland) & Yooshin Engineering
Corporation (KOR), BCL Associates Limited (BAN), SARM Associates Limited
(BAN), Associates for Development Services Limited (BAN).

for

Consultancy Services for Management, Design, and Supervision Consultant for
design review and supervision of construction for the design build operation (DBO)
contract comprising river water intake, raw water pipeline, and a 500 MLD WTP,
detailed design, supervision of construction works of two pipeline packages under
Dhaka Environmentally Sustainable Water Supply Project, DWASA

To be renamed as:

Management, Design and Supervision Consultant (MDSC) under DESWSP, DWASA

Loan No.-3051 BAN

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Original Contract memo No. 46.113.618.00.00.W-12/DESWSP/1649, Date 30.03.2016
Management, Design and Supervision Consultant (MDSC) under DESWSP, DWASA

REVISED AGREEMENT FOR CONTRACT VARIATION No. 28
CONTRACT FOR CONSULTANT'S SERVICES

This Agreement for Contract Variation No. 28 is made the 4th day of the month of June 2020, between, on the one hand Dhaka Water Supply and Sewerage Authority (Dhaka WASA) (hereinafter called the "Client") and, on the other hand, Mott MacDonald Limited (UK) in association with Fichtner GmbH & Co. KG (GER), Euroconsult Mott MacDonald (Netherland) & Yooshin Engineering Corporation (KOR), BCL Associates Limited (BAN), SARM Associates Limited (BAN), Associates for Development Services Limited (BAN) (hereinafter called the "Consultant").

WHEREAS

- a. The Client has requested the Consultant to provide certain consulting services as defined in 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; Consulting services involve: Consultancy Services for Management, Design, and Supervision Consultant for design review and supervision of construction for the design build operation (DBO) contract comprising river water intake, raw water pipeline, and a 500 MLD WTP, detailed design, supervision of construction works of three treated pipeline packages under Dhaka Environmentally Sustainable Water Supply Project, DWASA (to be known as: Management, Design and Supervision Consultant (MDSC).
- c. The Client has received a loan from the Asian Development Bank: toward the cost of the Services and intends to apply a portion of the proceeds of this loan 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 loan agreement, including prohibitions of withdrawal from the loan 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 loan agreement or have any claim to the loan proceeds.

NOW THEREFORE the parties hereto agree as follows:

1. In Clause 14.1 of the Special Conditions of Contract, "The time period shall be 50 months" shall be deleted and replaced with "The time period shall be 66 months" (7th April 2016 to 30 Sept 2021).
2. In Clause 42.3 of the Special Conditions of Contract,
 - a. "The adjustment will be made every 12 months after the date of the contract for remuneration in foreign currency and at the same intervals for remuneration in local currency" shall be deleted and replaced with "The adjustment will be made every 12 months commencing 1st June 2021 for remuneration in foreign currency and at the same date and interval for remuneration in local currency."
 - b. In the same Clause, "I₀ is the official index for salaries in the country of the foreign currency for the month of the date of the Contract." shall be deleted and replaced with "I₀ is the official index for salaries in the country of the foreign currency for the month of June 2020."
 - c. In the same Clause, "I₀ is the official index for salaries in the Client's country for the month of the date of the Contract." shall be deleted and replaced with "I₀ is the official index for salaries in the Client's country for the month of June 2020."

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3. The following documents attached hereto shall be deemed to form an integral part of this Revised Contract Agreement:

a. Revised Cost Summary (Appendix G) including Variation No. 28, as per the approval of the ADB of 16 June 2020. This shall supersede the previous Cost Summary:

i. The following two tables summarise the changes in person months and costs resulting from revised Variation Order No. 28:

Person-Months (PMs) Inputs	Current PMs up to VO#27	Approved PMs under revised VO#28
Key Experts (International) ¹	484	484
Key Experts (National)	721	610
Non-Key Experts (National)	951	576
Total Person-Months (PMs) Inputs	2,155 PMs	1,670 PMs

Contract Cost Breakdown	Current Cost up to VO#27	Approved Cost under revised VO#28
USD (inclusive of contingency)	2,063,747	2,161,867
GBP	4,632,469	5,220,712
EURO	2,394,649	2,092,849
BDT	508,026,708	455,358,975

ii. With Variation Order # 28, the contingency is USD 1,365,011, as per the approval of the ADB of 16 June 2020.

b. The revised charge rates and reimbursable rates shall apply from 7th June 2020 to 30 September 2021 (subject to inflation adjustment as per the contract, as amendment above).

c. This revised VO shall be effective from 7th June 2020.

d. Additional Key Experts (Appendix H) for Variation No. 12

e. MDSC "Package 3 Lot 2 Proposal - Rev E" (Appendix J) for Variation No. 12 - in the event of any discrepancy between this and the Revised Cost Summary (Appendix G), the Revised Cost Summary (Appendix G) shall take precedence.

f. Letter "MDSC Contract Variation - Additional Ground Investigation Requirements" dated 21st August 2017 (Appendix K) - in the event of any discrepancy between this and the Revised Cost Summary (Appendix G), the Revised Cost Summary (Appendix G) shall take precedence.

g. The original Contract Agreement, consisting of:

i. Minutes of Contract Negotiation Meeting with all annexure (A to E) and Additional annexure of Contract Negotiation (Annexure F and revised Contract Negotiation for 16 months services (Annexure G and H))

ii. The General Conditions of Contract (including Attachment 1 "Bank Policy - Corrupt and Fraudulent Practices")

iii. The Special Conditions of Contract

iv. Appendices:

1. Appendix A: Terms of Reference
2. Appendix B: Key Experts
3. Appendix C: Remuneration Cost Estimates

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4. Appendix D: Other Expenses, Provisional Sums and Contingency Cost Estimates
 5. Appendix E: Form of Advance Payments Guarantee
 6. Appendix F: Work Program and Personnel Schedule
4. The mutual rights and obligations of the Client and the Consultants 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.
5. Payment under this Contract shall be in accordance with Appendix G (excluding IT & VAT) and shall not exceed the ceiling figures given in revised VO 28 Appendix G, except as otherwise agreed between the client and the Consultant.
6. As per schedule of payment and in accordance with Appendix G (excluding IT & VAT) under this contract shall not exceed USD 796,856 (Seven hundred ninety six thousand eight hundred fifty six US Dollar + GBP 5,087,248 (Five million eighty seven thousand Two hundred forty eight GBP + Euro 2,092,849 (Two million ninety two thousand eight hundred forty nine Euro + Local BDT401,158,975+ provisional sums BDT54,200,000 totaling BDT sums 455,358,975 (Four hundred fifty five million three hundred fifty eight thousand nine hundred seventy five BDT + 2nd stage DBo bid evaluation assistance cost GBP 133,464 + As per Contingencies USD 1,365,011 (One million three hundred sixty five thousand eleven US Dollar and Total Contract Price USD 2,161,867 + GBP 5,220,712 + Euro 2,092,849 + BDT 455,358,975 equivalent to USD 18,372,370 equivalent to BDT 1,442,231,032 (One hundred forty four crore twenty two lac thirty one thousand thirty two) BDT Except as otherwise agreed between the client and the Consultant.
- The Total contract amount is BDT 1,910,583,175 (One hundred ninety one crore five lac eighty three thousand one hundred seventy five only including Local TAX (BDT 252,017,488) and VAT (BDT 216,334,655) amounting BDT 468,352,143 (Forty six crore eighty three lac fifty two thousand one hundred forty three) only.
7. Payment will be made in Bangladesh BDT, USD, EURO and GBP

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

For and on behalf of:

Dhaka Water Supply and Sewerage Authority (DWASA):

Mott MacDonald Limited and Associates:

Engr. Taqsem A Khan
Managing Director
Dhaka WASA

Engr. Taqsem A Khan
Managing Director
Dhaka WASA

Ben Wijes
Country Director
Representative Bangladesh
Mott MacDonald Ltd

Witness:

Md. Mahmudul Islam
Project Director
DESWSP, DWASA

Witness:

Md Abdus Salam
Financial Management Specialist,
DESWSP, Mott MacDonald Ltd