

PMC for 400 MLD SWRO Desalination Plant at Perur, Chennai

Consortium Partners

SMEC International Pty. Ltd. (ACN-065440619/FCRN-F01483)

NJS Engineers India Pvt Ltd, India (CIN - U74210PN2007PTC129798)

Tata Consulting Engineers Limited, India (CIN- U74210MH1999PLC123010)

SMEC (India) Pvt. Ltd. (CIN: U93000DL1997PTC088574)



Ref: SMEC/ CMWSSB / 5061185/163

Date: 19th September 2020

To,

The Superintending Engineer (Desalination)

6th floor, Chennai Metropolitan Water Supply and Sewerage Board,

No.1, Pumping Station Road,

Chintadripet, Chennai 600 002

Tamil Nadu, India



Sub: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works"

Replacement of Contract Specialist (Desal) (Key International Expert No. 9 / Evaluation position) – Reg.

- Ref:**
1. Our Letter no. Ref: SMEC/ CMWSSB / 5061185/137, dated 10.09.2020
 2. CMWSSB/SE(Desal)/400 MLD Plant/PMC-017/2020, dated 08.09.2020
 3. CMWSSB/SE(Desal)/400 MLD Plant/PMC-012/2020, dated 21.07.2020
 4. Our Letter no. Ref: SMEC/ CMWSSB / 7061563/005, dated 20.01.2020
 5. Your Letter no. Lr.no. CMWSSB/SE(Desal)/400 MLD Plant / PMC/2020, dated 13.01.2020
 6. Our Contract Agreement with CMWSSB, dated 09.01.2020

Dear Sir,

In reference to the above, we would like to bring to your kind notice that **Mr. Roderick Mackenzie, Contract Specialist (Desal)** do not wish to return back to India from United Kingdom owing to his personal reasons and due to the current worldwide COVID-19 pandemic, which was confirmed to you vide our letter dated 10/09/2020.

In view of the above, we would like to propose **Mr. Abdel Toukan for the position of Contract Specialist (Desal)**, who satisfies all the criteria as per the RfP requirement and is in fact a better candidate as a replacement for Mr. Roderick Mackenzie for this assignment. He has extensive experience in contracts and procurement of large water and infrastructure projects in EPC & PPP mode and has specific experience in SWRO desalination projects. Also, he has worked across developed as well as developing economics of Africa, America, Asia and particularly India. Further, he also has a demonstrated experience of working in procurement under JICA funded projects in his earlier assignments.

A brief of the proposed staff has been given below:

| Sl. No. | Proposed Staff Name | Brief |
|---------|--|---|
| 1 | Mr. Abdel Toukan Contract Specialist (Desal) (Key | Mr. Abdel Toukan holds a Bachelor of Engineering in Civil Engineering with over 38 years of rich experience in procurement & contracts works in SWRO Desalination / Water treatment plant / infrastructure projects in developed and |

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| Sl. No. | Proposed Staff Name | Brief |
|---------|----------------------------|--|
| | International Expert No.9) | <p>developing countries like Canada, United Arab Emirates, Egypt, Saudi Arabia, India, Lebanon & Jordan.</p> <p>Possess working experience in various countries and similar projects. He is also familiar with working under multilateral funding agencies like JICA. Hence, he can understand the working conditions and procedures of JICA.</p> <ul style="list-style-type: none">• Al-Fateh International Construction Group, Jubail, KSA, Sea water desalination plant of 100 MLD Capacity,• The Al Khaffji Desalination project, north-eastern of Saudi Arabia, Seawater Reverse Osmosis SWRO Desalination Plant, 60 MLD Capacity• Jeddah Reverse Osmosis Desalination Plant Phase 2, Saudi Arabia, 1994 of total 48848m³ (48.85 MLD capacity) |

While proposing this replacement, we have made a detailed evaluation and the evaluation sheet is attached herewith for your easy review and reference.

Hence, we request you to provide your approval of Mr. **Mr. Abdel Toukan, as Contract Specialist (Desal)** at the earliest so that he can be mobilised immediately to become part of RfP documents preparation.

Thanking you and assuring you of our best services always.

Yours truly,

For **Consortium of SMEC International Pty Ltd -TCE Ltd.-NJS Engineers India Pvt. Ltd.-SMEC (India) Pvt. Ltd.**

S. Srinivasa Rao
Project Coordinator



Encl: CV and evaluation sheet of Mr. Abdel Toukan.

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Project Name: Consultancy for "Design, Preparation of Bid Documents & Evaluation of Bids for the Proposed Construction of 400 MLD Capacity Seawater Reverse Osmosis Desalination Plant at Perur along East Coast Road, South of Chennai, Tamil Nadu and Construction Management & Supervision for the Proposed Desalination Plant and its Product Water Conveyance Pipeline from the Plant and upto Porur and all allied works"

Replacement of Contract Specialist (Desal) – International Expert No.9 - Comparison Sheet:

| Sl. No. | Details as per RTP Requirements | Original CV Evaluation | Proposed CV Evaluation |
|---------|---|---|---|
| 1 | Name | Mr. Roderick Mackenzie | Mr. Abdel Toukan |
| 2 | Nationality | British | Canadian |
| 3 | Educational Qualifications: Graduate in Civil Engineering | Bachelor of Engineering, Civil, Heriot Watt University, United Kingdom (1988) Overall 30 Years of Experience. | B.Sc. Civil Engineering, Alexandria University, Egypt, 1981 Overall more than 38 years of experience. |
| 4 | Experience Criteria: <ul style="list-style-type: none"> Atleast 10 years' experience as Contract specialist Atleast 2 experience of international projects financed by bilateral or multilateral funding agency Atleast two experiences of water supply projects under public-private partnership (PPP) scheme involving O&M by private sector. | <ul style="list-style-type: none"> 25 years of experience as Contract Specialist. Meets the requirement Meets the requirement | <ul style="list-style-type: none"> 38 years of experience as Contract Specialist. Meets the requirement Meets the requirement |
| 5 | Adequacy for the Assignment: <ul style="list-style-type: none"> Experience of the Key Experts in Desalination Plant of minimum capacity 40 MLD (in Design, Tender Assistance, Preparation & Evaluation of Bids with 3 or more projects) | <ul style="list-style-type: none"> 45 MIGD Capacity Sea Water Reverse Osmosis Desalination Plant in Umm Al Quwain, UAE (2016) 68 MLD Aqaba Sea Water Reverse Osmosis Desalination Plant with O&M to be let to the private sector, Jordan (2013) 60 MLD SWRO Desalination Plant with private sectors O&M, serving the capital of Ghana (2008) | <ul style="list-style-type: none"> Al-Fateh International Construction Group, Jubail, KSA, Sea water desalination plant of 100MLD Capacity of PPP funded project including O&M by private sector with an estimated project cost of \$130M [2009 – 2015(intermittently)] The Al Khafji Desalination project, north-eastern of Saudi Arabia, Seawater Reverse Osmosis SWRO Desalination Plant, 60 MLD Capacity and comprise of O&M by private sector (2012). Jeddah Reverse Osmosis Desalination Plant SWRO Phase 2, Saudi Arabia, 1994 of total 48848m³ (48.85 MLD capacity) |
| 6 | Familiarity with language & conditions of the Country Points | Worked in developed and Developing countries like United Kingdom, United Arab Emirates, Jordan, Pakistan & Ghana | Worked in developed and developing countries like Canada, United Arab Emirates, Egypt, Saudi Arabia, India, Lebanon & Jordan. Possess working experience in various countries and similar projects. He is also familiar with working under multilateral funding agencies like JICA. Hence, he can understand the working conditions and procedures of JICA. |
| 7 | Familiarity with the Language (English) | Excellent | Excellent |

Form TECH- 6 Curriculum Vitae (CV)

1. General

| | |
|---|---|
| Position Title and No. | Contract specialist (Desal) (International Expert) (No.9) |
| Name of Key Expert | Abdel Toukan |
| Name of the Firm proposing the Key Expert | SMEC International Pty Ltd |
| Year of Birth | 1958 |
| Nationality | Canadian |
| Country of Citizenship/ Residence | Canada/Toronto |

2. Education:

- Certificate of Disruptive Strategy: Harvard Business School, USA, 2019
- **Master of International Business Law: University of Liverpool, U.K, 2015**
- **Certificate of Arbitration Claims and FIDIC Contracts, Engineers Association, Egypt, 1995**
- Diploma of Management: Royal Corps of Engineers, Amman, Jordan, 1983
- **B.Sc. Civil Engineering, Alexandria University, Egypt, 1981**

3. Employment record relevant to the assignment:

Abdel Toukan is a Civil Engineering, with over 38 years of experience in developed and developing countries. He has extensive experience in contracts and procurement of large water and infrastructure projects in PPP projects (DBO, BOOT, DBOT etc.) and has specific experience for SWRO projects including Public-Private Partnership (PPP) scheme involving O&M by private sector. He is conversant with various precedent forms including the FIDIC suite of contracts and SBDs of various multilateral funding agencies. He has worked intermittently in Gurgaon, India assignment for DLF project through HILL International.

| Period | Employing organization and your title / position. Contact information for references | Country | Summary of activities performed relevant to the Assignment |
|---------------------------|--|---------|--|
| August 2019 – Present | Employing Organisation: PRHP, Joint venture consortium of SAMSUNG and ACCIONA Position Held: Director, Commercial, Contracts and Claims Reference: Tel No.: 1-647-237-7333 Email: Hicham.fanous@gmail.com Name: Hicham Fanous Designation: Contract Manager | Canada | The Site C Dam, British Columbia, Canada <ul style="list-style-type: none"> • Managed negotiations, contract award and administration of all contracts for a 2.1 Billion dollars Dam. • Negotiated, analyzed, and provided input into the preparation and revision of contracts and subcontracts to ensure customer and corporate objectives are met. • Prepared and reviewed purchase orders, RFP, RFQ, RFI • Prepared, submitted cost proposals including pricing, scheduling detail, coordination of requirement and cost proposal risk assessment. Administered all post-proposal activities such as audits, fact-finding, contract negotiation and award. Interfaced directly with Program Managers and ensured contract requirements are fulfilled. • Acted as an advisor to project management team (PMO) regarding legal requirements, specifications, and government regulations. • Managed the dispute resolutions meeting with Subcontractors. Analyzed and interpreted provisional government regulations including while ensuring compliance with requirements. Reviewed and negotiated terms and conditions of different types of contractual agreements such as Non-Disclosure, and Subcontract agreements to ensure compliance with established policies and standards. • Assisted in planning and scheduling contract and regulatory compliance activities, including internal and external reviews and audits. Managed all correspondence, and reviewed with international lawyers correspondence and court cases |
| January 2019 to July 2019 | Employing Organisation: BKC/N/ PNR Railways Position Held: Director, Commercial, Contracts and Claims specialist Reference: Tel No.: 1 416 230 0360 Email: kraveendra@hotmail.com | Canada | <ul style="list-style-type: none"> • Union Station Signalling project, Toronto, 520 Million \$, project including O&M by private sector • Provided guidance and direction on contract administration. • Served as an expert on the overall contracting and procurement operations, policies, and functions. • Managed all JV contracting operations including contract formulation, negotiation, pre, post-award activities, as well as the assessments of requirement necessary to accomplish the Signalling project including preparation of Tender Documents, identification and selection of appropriate Sub- contractors. • Supervised the implementation of strategies, initiatives to identify, |

| Period | Employing organization and your title / position. Contact information for references | Country | Summary of activities performed relevant to the Assignment |
|------------------------------|--|---------|--|
| | Name: Ravi Raveendra Designation: Director, BKCN Engineering Inc. | | address issues arising from contract operations, policies, in order to enhance the overall efficiency, effectiveness of the contractor. <ul style="list-style-type: none"> Partnered with the Chief Procurement Officer and developed acquisition strategies for complex procurements to assure attainment of mission goals. |
| January 2016- December 2018 | Employing Organisation: SBG Construction group/ Atkins Position Held: Director, Commercial, Contracts and Claims specialist Reference: Tel No.: 1 647 980 0554 Email: tannirha05@hotmail.com Name: Engineer Hassan El-Tannir Designation: Procurement Manager | KSA | Jeddah International Airport, 10 Billion Dollars international airport <ul style="list-style-type: none"> Prepared the tender documents, specifications, negotiated, evaluated and awarded contract to sub-contractor. Prepared all joint venture agreements, PO, RFI, RFP, RFQ Reviewed & prepared all upstream and downstream claims. Approved all subcontractors' invoices. Managed the cost control team and contract administrators. Managed, prepared, reviewed and approved all correspondence. Terminated subcontractors, managed close out of project |
| January 2014 – December 2015 | Employing Organisation: Metrolinx/ CH2MHill Position Held: Senior Contracts and Claims specialist Reference: Tel No.: 1 916 792 9667 Name: Tarek Diab Designation: Vice President at Alta Vista Solutions, Sacramento, California Area | Canada | <ul style="list-style-type: none"> Acted as the Senior Manager-Contracts Specialist for Metrolinx, the agency of Govt. of Ontario under the <i>Metrolinx Act, 2006</i>, which was created to improve the coordination, integration of all modes of transportation in the Greater Toronto and Hamilton Area Supervised the application of principles of supervision; contract administration and management. Reviewed all contracts, prepared bids and tenders. Novated the contract from Toronto Transit Commission (TTC) to newly developed PPP entity Metrolinx, function and operation manual. Managed, prepared, reviewed and approved all correspondence. Monitored subcontractors, consultant's performance, communications, compliance reviews, and negotiations with contractors to move them from TTC to Metrolinx. Prepared, reviewed, approved short, long-term financial planning; budgetary concepts, procedures, supervised and coordinated the work of subordinate analysts. Applied the concepts, techniques, methodology of contract management to variety of work situations; developed necessary improvements for bidding and tendering. Determined the feasibility of rewriting new contracts with sub-contractors; developed contract management processes including manuals applied rules, regulations, laws related to operation and maintenance contracts. Prepared bid documents according to City of Toronto and Ontario standards; committed to safety practices. Prepared budget requests; staffing plans; coordinated projects with other cities including the private sector. |
| August 2011 – December 2013 | Reference: Tel No.: 1 416 230 0360 Email: kraveendra@hotmail.com Name: Ravi Raveendra Designation: Director, | Canada | <ul style="list-style-type: none"> Managed the contract for Spadina – York light rail project. Prepared tender bids for sub-contractors, evaluated sub-contractors, wrote their agreements and awarded contracts. Managed, prepared, reviewed and approved all correspondence. Identified cost reduction opportunities to achieve financial goals. Identified areas for improvement of the contract to continually drive performance and business results Reviewed current processes for procurement. Tracked functional metrics to reduce expenses and improve effectiveness. Performed risk |

| Period | Employing organization and your title / position. Contact information for references | Country | Summary of activities performed relevant to the Assignment |
|---|--|------------------|--|
| January 2000 – July 2011 | Employing Organisation: Dubai Holding real estate development Co. Position Held: Director, Commercial and contracts Reference: Tel No: +201062200744 Email: skourdy1@gmail.com Name: Sami Kourdy Designation: HR Director | UAE | management for supply contracts and agreements. <ul style="list-style-type: none"> Maintained accountability for 100 Billion dollars in 12 world cities, Contracts management, tender preparation, wrote the joint venture agreements, evaluated contractors, led value engineering proposals, and collaborated with Consultant, Contractor to support the submission of high quality, timely and compliant proposals. Managed, prepared, reviewed and approved all correspondence. Led the negotiation and administration of contracts in support of financial objectives of Dubai Holding Co. Managed a team of managers and professionals who supported all program requirements for the Division across multiple international sites, including GCC. Oversaw all contract activities in accordance with applicable regulations, policies, and best practices to achieve operational excellence, financial performance, and customer satisfaction. Supported Sector, Corporate Contracts, provided resources, input to assist with identification and completion of key strategic initiatives. Cultivated internal and external stakeholder relationships and supported the Dubai Government forums and councils. |
| January 1982 – September 2012 and Providing services Intermittent ly as contract specialist for the projects mentioned. | Employing Organisation: Associated Consulting Engineers (ACE) Position Held: Contracts Specialist Worked as a retained Contract Specialist in ACE/CMCCO Joint venture consortium Reference: Tel No.: + 961 3644 526 Email: mazinbizri@gmail.com Name: Engineer Mazin Bizri Designation: CEO, Construction management Consultant Co. | Jordan / Lebanon | <ol style="list-style-type: none"> The Disi Project (Water Conveyance and Desalination Plant), Jordan (DBOT Contract) 80 MLD Capacity Jeddah Sea Water Reverse Osmosis Desalination Plant Phase-2, Saudi Arabia (48.85 MLD Capacity), completed on 1994 Najran STP, Saudi Arabia, \$12.683 Million dollars, (PPP) project, built 2013 -2016, nominal diameter 800mm, nominal pressure (Bar) 10. The Client is Jubail water and Power company- Marafiq, the project cost including O&M by private sector Abha STP, Saudi Arabia, \$18.37 Million project, built 2013 -2016, nominal diameter 800 mm, nominal pressure (Bar) 10. The Client is Jubail water and Power company- Marafiq. Sea water reverse osmosis desalination plant, Al Khafji, Saudi Arabia, a PPP project with a capacity of 60,000 m³ per day (60 MLD). The Client is The Saudi Technology Development and Investment Company, Taqnia and the project comprise of O&M by private sector. Sea water reverse osmosis desalination plant, Jubail, Saudi Arabia, built between 2009 – 2015 (intermittently) with a daily capacity of 100,000m³ capacity (100 MLD) PPP funded by Jubail Water and Power Company-Marafiq, including private sector Operation and Maintenance Contract. Riyadh, KSA reverse Osmosis plants Ras Gas to liquid project, Feb 2007 to May 2010 <ul style="list-style-type: none"> Planned, directed all aspect of engineering, contracts activities and project documents and specifications. Directed the negotiation of contracts, prepared the bids, Joint venture agreements and all related contracts as per FIDIC standards including both the general and special conditions. Managed, prepared, reviewed and approved all correspondence. Collaborated with legal teams as well as worked independently and evaluated technical and financial bids, evaluated contractors, awarded contracts, prepared letters of intent and issued instruction to work, drafted documents. Assisted government, authority to terminate contracts on favourable terms, ensured that all engineering projects, processes are in conformity with policies and objectives. Prepared technical and financial bids, all related contracts as per FIDIC standards including both the general and special conditions. |

| Period | Employing organization and your title / position. Contact information for references | Country | Summary of activities performed relevant to the Assignment |
|--------|--|---------|---|
| | | | <ul style="list-style-type: none"> Prepared tender documents and specification for complex PPP projects funded by JICA ODA loans, World Bank, USAID etc. Utilized expertise and negotiation skills to work out contract terms. Negotiated with vendors to secure advantageous terms. Finalized contract terms, supported budget for business plan as needed. |

4. Membership in Professional Associations and Publications:

- Professional Engineers of Ontario
- Society of Professional Engineers, Ontario
- Dam Association of Canada, British Columbia
- Jordan Engineers association
- Kuwait Engineers association
- Saudi Arabia Engineers association
- International Roads Federation, Washington, USA
- Former President Council of tall building & Urban Habitat, Canada
- Former President Jordan Roads Society
- Project Management Institute, Western chapter, Toronto, Canada
- Legal Comparison between Conditional and Unconditional bonds, a legal reference book written and published 2015

5. Language Skills:

| Language | Speaking | Reading | Writing |
|----------|-----------|-----------|-----------|
| English | Excellent | Excellent | Excellent |
| French | Basic | Basic | Basic |

6. Adequacy for the Assignment:

Detailed Tasks Assigned on Consultant's Team of Experts:

- Mr. Abdel Toukan shall function as the Contract Specialist. He shall review all relevant procurement requirements of JICA in detail and tailor the bid documentation to confirm with their requirements based on the FIDIC Gold Book 2008. In addition, the Contract Specialist shall undertake a preliminary review of the Government of India Procurement laws as they impact the bidding process and advice on "show-stoppers" and workarounds as necessary. He is having a total of 38 years of experience as Contract Specialist.
- Shall prepare PQ documents and bid documents for CP-1; Shall assist the Client in evaluation of PQ documents of CP-1
- Shall assist the Client in correspondence to clarifications from the bidders and evaluate the bids in contractual aspects in CP-1
- Shall assist the Client in contract negotiation with the successful bidder in CP-1

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

I. Name of Project: *The Site C Dam, British Columbia*

Year: 2019 Location: British Columbia (BC), Canada;

Client: BC Hydro

Main project feature: It is an under construction run-of-the-river hydroelectric dam on the Peace River near Fort St. John. It is located at 80Km downstream from W.A.C. Bennett Dam. When completed in 2024, it will become 4th largest producer of hydroelectricity with a capacity of 1100 MW and an expected annual output of 5100 GWh of electricity.

Position Held: Commercial and Contracts Director

Activities Performed: Prepared all tender documents for the sub-contractors, conducted bid process management and evaluation of bids, negotiated agreements and issued PO. Defined project scope, developed project plans, schedules, estimates and budgets. Estimated and took corrective actions on contractual and commercial issues. Managed and worked closely with International lawyers on all legal aspects. Led dispute resolution, contractual meetings and terminated sub-contractors.

II. Name of Project: *Sea water desalination Plant at Jubail Phase II, KSA, Al-fateh International construction group (100 MLD Capacity) PPP funded project*

Year: 2009 – 2015 (intermittently); Location: Jubail, KSA; funded by: Jubail Water and Power Company-MARAFIQ

Client: Jubail Water and Power Company-MARAFIQ

Main project feature: This project, known as one of the largest desalination plants in Saudi Arabia at that time, with a production capacity of 100,000 m³ per day.

Position Held: Senior Contract specialist

Activities Performed: Carried out all the Tendering Services and evaluation. Also, involved in review of concept design and preparation of bid parameters, considering public-private partnership (PPP) scheme including O&M by private sector.

III. Name of Project: *The Al Khafji Solar Saline Water Reverse Osmosis (SWRO) Desalination project, north-eastern of Saudi Arabia, of 60 MLD Capacity*

Year: Jan'2012–May 2012; Location: Khafji, Saudi Arabia ; funded by: Saudi Company for Development and Technology Investment, Taqnia

Client: Al Khafji – Saudi Arabia

- Main project feature:** The Al Khafji desalination plant is one of the world's first large-scale solar-powered desalination plants.

It will be located to the north-eastern part of Saudi Arabia near the Kuwait border. The plant is estimated to cost \$130m and is expected to be completed by early 2017. The project comprise of O&M by private sector.

- Plant type: **Solar Saline Water Reverse Osmosis Desalination Plant (Solar SWRO)**. It is the world's first large-scale plant. Seawater was collected below water level and flew into a riser and GRP pipes with a length of 2,100m towards the shore. Seawater was pumped to the plant and converted into potable water.
- It will supply **60,000m³ of desalinated seawater a day** to the city. The facility employed the new Solar SWRO desalination method using ultra-filtration (UF) for the pre-treatment process.

Position Held: Contract Specialist

Activities Performed: Prepared all tender documents for the sub-contractors, conducted bid process management and evaluation of bids, negotiated agreements and issued PO Worked for 5 months on Priced BOQ preparation and Contract & Procurement management related activities. Helped in pricing, materials, methodology, for Suido Kiko Middle East ("SKME"), the company was a Joint venture between Saudi Brothers Commercial Company Group and Suido Kiko Kaisha of Japan.

IV. Name of Project: Briman Strategic Water Reservoir at Jeddah "Largest Drinking Water Storage Facility" (Design-Build Contract)

Year: 2013 - 2014 **Location:** Jeddah, KSA; **Client:** National Water Company of KSA; **Project Funded by:** KSA/ France

Main project feature: The project was delivered under Design-Build Contract Model to provide **2.063 Mm³** of storage capacity.

Position Held: Senior Contract specialist

Activities Performed: Preparation of tender documents, correspondence regarding bid queries, bid process management and evaluation, contract management, prequalification of contractors. The world largest drinking water storage facility in Briman. This storage will provide drinking water to millions of people living in Jeddah of capacity of **2.064Mm³**. Role was the operation of urban water distribution system in the 4th largest cities delegated to private company as well.

V. Name of Project: South Jeddah Corniche Desalination Plant (SOJECO), Jeddah, Saudi Arabia (10 MLD Capacity)

Year: 2011; **Location:** Saudi Arabia

Client: National Water Authority, Jeddah , KSA

Main project feature: SWRO desalination plant has a capacity of 10,000m³ of water day. It is composed of Water Desalination Plant production hall including laboratory, control, chemical room etc.

Position Held: Senior Contract specialist

Activities Performed: Preparation of RFQ and RFP, bid process management & evaluation of bids, contract negotiation and Contract Administration services.

VI. Name of Project: Jiza & Talbiyah wastewater treatment Plant and transmission pipeline (South Amman Wastewater treatment plant)

Year: 2004; **Location:** Jiza, Amman, Jordan; **Client:** Ministry of Water & Irrigation – Water Authority of Jordan

Main project feature: EPC project with capacity 13000 cum per day

Position Held: Contract Specialist

Activities Performed: Preparation of tender documents, bid process management & evaluation of bids and specification. Also, provided Contract management services following **FIDIC contract** for the Project.

VII. Name of Project: Tourism Sector Development Project

Year: 1999 – 2001; **Location:** Different areas in Jordan; **Client:** Ministry of Tourism, Jordan

Main project feature: Japanese ODA loan: The project aims to improve the tourism infrastructure, making tourism resources more amicable and attractive to tourists, thereby strengthening Jordan's capacity to earn necessary foreign currency and the project consists of six sub-projects.

Position Held: Technical and Contracts Manager

Activities Performed: Managed design, preparing technical tender documents, including specifications and drawings, conducted the bid process management services including correspondence for bid queries, evaluation of bids, contracts negotiation and issue of work order/LOI and Contract Management for the project following FIDIC.

VIII. Name of Project: The Disi Project (Water Conveyance & Desalination Plant), Jordan (BOT) of 80 MLD capacity

Year: 1996-2000 and 2009-2013; **Location:** Aldisi, Jordan

Client: Jordanian Government and Disi Water Company (DIWACO)

Main project feature: The **Disi Water Conveyance Project**, it is designed to pump 100 Mm³ (2.2×10^{10} imp gal) of water per year from Disi aquifer. The water is pumped for 325Km to Amman and other cities to meet increased demand. The main water conveyance project that brings **desalinated sea water** from the Red sea to Amman from Disi aquifer in southern desert. It is designed and built under **Public Private Partnership on BOT Contract terms**. The project is funded on BOT basis for Concession Contract between Jordanian Government and DIWACO.

Position Held: Technical Manager

Activities Performed: Managed design, preparing technical tender documents, including specifications and drawings, conducted the bid process management services including correspondence for bid queries, evaluation of bids, contracts negotiation and issue of work order/LOI and Contract Management for the project following FIDIC.

IX. Name of Project: Developing infrastructure for enhancing Jordan's competitive sector, Baqaa wastewater network, Amman, Jordan

Year: 1998; **Location:** Baqaa, Amman, Jordan;

Client: Ministry of Water & Irrigation, Jordan

Main project feature: Funded by JICA

Position Held: Technical and Contracts Manager

Activities Performed: Managed design, preparing technical tender documents, including specifications and drawings, conducted the bid process management services including correspondence for bid queries, evaluation of bids, contracts negotiation and issue of work order/LOI and Contract Management for the project following FIDIC.

X. Name of Project: Providing 40 Schools, each composed of 12 classes

Year: 1996; **Location:** Different cities in Jordan; **Client:** Ministry of Education, Jordan

Main project feature: Funded by JICA

Position Held: Technical and Contracts manager

Activities Performed: Managed design, preparing technical tender documents, including specifications and drawings, conducted the bid process management services including correspondence for bid queries, evaluation of bids, contracts negotiation and issue of work order/LOI and Contract Management for the project following FIDIC.

XI. Name of Project: Jeddah Sea Water Reverse Osmosis Desalination Plant Phase-2, Saudi Arabia (48.85 MLD Capacity)

Year: 1994; **Location:** Saudi Arabia

Client: Joint Venture between Saudi Brothers Commercial Group and Suido Kiko Kaisha, Ltd., Japan

Main project feature: SWRO desalination plant Jeddah, Phase 2 has a capacity of 48848m³ per day

Position Held: Senior Contract specialist

Activities Performed: Carried out the Project management and Contract administration. Prepared tender documents, conducted the bid process management services including correspondence for bid queries, evaluation of bids, contracts negotiation and issue of work order/LOI and Contract Management for the project following FIDIC.

XII. Name of Project: Aqaba's sewage treatment plant in Jordan on PPP scheme

Year: 1992 ; **Location:** Aqaba ; **Client:** Ministry of Water & Irrigation – Water Authority of Jordan

Main project feature: PPP Scheme on DBOT basis including O&M by private sector

Position Held: Contract Specialist

Activities Performed: Carried out the Project management and Contract administration. Prepared tender documents, conducted the bid process management services including correspondence for bid queries, evaluation of bids, contracts negotiation and issue of work order/LOI and Contract Management for the project following FIDIC.

Role: Supervised, managed the Supply, installation, start-up, commissioning of all head work Equipment (Mechanical Bar Screen/Grit Trap/ washer, Classifiers/Compactor), Turbine Mixer, Secondary Clarifier etc.

- Project briefing: Desalinating Red Sea water of 5 Mm³ annually, used for drinking, agricultural and industrial needs.
- The Red Sea water desalination project was implemented by KEMAPCO, on PPP scheme. It was designed, built on the principle of **Design-Build-Operate-Transfer (DBOT)**, financed by international donors, mainly JICA that allowed Jordan to recover its investment after 7 years of time helping Ministry of Water and Irrigation run the facility.

XIII. Name of Project: Aqaba's 6th district water, sewage network for Aqaba Municipality water distribution and sewer

Year: 1992

Location: Aqaba, Jordan

Client: Aqaba Regional Authority

Main project feature: Project Value: 20\$ Million

Position Held: Technical manager

Activities Performed: Managed and reviewed the Design, prepared the tender documents.

7. Certification:

I, the undersigned, certify to the best of my knowledge and belief that:

- (i) this CV correctly describes my qualifications and my experience;
- (ii) In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in the Expert Schedule in Form TECH-7 provided team mobilization takes place within the validity of this proposal or any agreed extension thereof;
- (iii) I am committed to undertake the assignment within the validity of Proposal;
- (iv) I am not part of the team who wrote the terms of reference for this consulting services assignment;
- (v) I am, pursuant to Clauses 3 and 4 of the ITC, eligible for engagement.

I understand that any misstatement described herein may lead to my disqualification or dismissal, if engaged.


A. Toukan



[Signature of Key Expert or authorized representative of the firm]

Date: 28/09/2020

Full name of authorized representative: Mr.S.Srinivasa Rao