

## **DAVID SARNE – RESUME**



### **PERSONAL:**

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### **EDUCATION:**

B.Sc. in Civil Engineering - Technion, Israel Institute of Technology, 1958.

### **REGISTRATION:**

Registered Engineer - Israel no. 00422.

### **LANGUAGES:**

Hebrew, English, German (fair).

### **FIELDS OF EXPERTISE:**

LTA – Lenders Technical Advisor, P-P-P Projects, Project Management, Engineering Management, Structural Engineering - Bridges and Concrete Structures (reinforced, pre-tensioned and post-tensioned), Highways, Infrastructure.

### **MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS AND ACTIVITIES:**

- Association of Engineers and Architects in Israel (E.A.A.I).
- Israeli Society of Structural and Infrastructure Engineers.
- American Society of Civil Engineers (A.S.C.E).
- Pre-stressed Concrete Institute - U.S.A (P.C.I.).
- Post-Tensioning Institute - U.S.A (P.T.I).
- American Segmental Bridge Institute (A.S.B.I).
- Israeli Association of Academic Property Assessors.
- Israel Standards Institute - committee 156 - Loads on Bridges (till 1993).
- Board of Directors - Israel Electric Corporation Ltd (1984-7).

### **PROFESSIONAL EXPERIENCE:**

- **Since 2022:** Lenders Technical Advisor (LTA) for Bank Hapoalim in Highway 6 4<sup>th</sup> lane expansions.
- **Since 2020:** Lenders Technical Advisor (LTA) for MTB in the Fast Lanes Project in Tel Aviv Metropolitan Area.
- **2020-2023:** Lenders Technical Advisor (LTA) for Bank Discount in Ashdod Container Terminal (HaDarom Port) Project.
- **Since 2019:** Local Lenders Technical Advisor (LLTA) for Bank Hapoalim in the Jerusalem Light Rail Project (Green Line), together with Sener (Spain) as offshore LTA.
- **Since 2018:** Local Lenders Technical Advisor (LLTA) for MTB in the Manara Pumped Storage Power Plant Project, together with Fichtner (Germany) as offshore LTA.
- **Since 2018:** Local Lenders Technical Advisor (LLTA) for Bank Leumi in the Etgal Open Cycle Power Plant Project, together with GHD (UK) as LTA.
- **2017-2018:** Lenders Technical Advisor (LTA) for UMTB in the IDF IT Campus Project (during the BAFO phase).

- **Since 2016:** Local Lenders Technical Advisor (LLTA) for Bank Hapoalim in the Kochav Hayarden Pumped Storage Project, together with Stantec (MWH) as LTA.
- **2014-2017:** Local Lenders Technical Advisor (LLTA) for MTB in the Sugat Cogeneration Power Plant Project (until Financial Close), together with Poyry (Italy) as offshore LTA.
- **2013-2014:** Local Lenders Technical Advisor (LLTA) for Bank Hapoalim in the Alon Tavor and Ramat Gavriel Cogeneration Power Plant Projects (until Financial Close), together with Poyry (Italy) as offshore LTA.
- **Since 2013:** Lenders Technical Advisor (LTA) for Bank Hapoalim in the I.D.F. Training Center in the Negev PFI Project.
- **Since 2012:** Lenders Technical Advisor (LTA) for Bank Leumi in the Assuta Ashdod Hospital PFI Project.
- **Since 2011:** Local Owner's Engineer (OE) for Agira She'uva – Gilboa Pumped Storage Project, together with EDF (France).
- **Since 2011:** Lenders Technical Advisor (LTA) for Bank Discount in the Israeli Police Training Center PFI Project.
- **2011-2015:** Local Lenders Technical Advisor (LLTA) for Bank Leumi in the Dalia Power Plant (Combined Cycle) PFI Project, together with POYRY (Italy) as offshore LTA.
- **Since 2011:** Local Lenders Technical Advisor (LLTA) for Bank Hapoalim in the Ashdod Desalination PFI Project by Mekorot Development Enterprise, together with NT Water Pros Ltd. (Cyprus) and Battus (UK) as offshore LTA(s).
- **Since 2010:** Lenders Technical Advisor (LTA) for Bank Discount in Rehabilitate, Operate Transfer PFI Project.
- **Since 2008:** Lenders Technical Advisor (LTA) for Bank Hapoalim and C.I.T. (Canada) in Highway 6 central section expansions BOT Projects.
- **2007-2009:** Local Lenders Technical Advisor (LLTA) for Capita Symonds (UK) as LTA in Tel Aviv Light Rail BOT Project (until Financial Close).
- **2007-2009:** Lenders Technical Advisor (LTA) for Bank Hapoalim in Highway 6 Section 18 (northern extension) BOT Project, including management and quality assurance (QA) of 4 segmental bridges, precast cantilever.
- **Since 2007:** Lenders Technical Advisor (LTA) for Discount Bank, together (joint venture) with ARUP (UK) in Carmel Tunnels BOT Project in Haifa (in operation since 2010).
- **Since 2005:** Lenders Technical Advisor (LTA) for Bank Hapoalim in Highway 431 PFI Project, including management and quality assurance (QA) of 4 segmental bridges, precast cantilever.
- **Since 2006:** Lenders Technical Advisor (LTA) for Discount Bank, together (joint venture) with ARUP (UK) in Carmel Tunnels BOT Project in Haifa (in operation since 2010), including management and quality assurance (QA) of 3 segmental bridges, cast in situ with travelers.
- **Since 2005:** Lenders Technical Advisor (LTA) for Bank Hapoalim, together (joint venture) with ARUP (UK) in Jerusalem Light Rail BOT Project. (in operation since 2011).
- **1999-2004:** Senior Lenders Technical Advisor for Bank Hapoalim and Newcourt (Canada), together (joint venture) with ARUP (UK) in the Cross Israel Highway (Highway no. 6) BOT Project, including management and quality assurance (QA) of 2 segmental bridges.
- **1998-9:** Quality Assurance Advisor for D.E.C - C.J.V in Cross Israel Highway (Highway no. 6) BOT Project.
- **1996-9:** Project Manager of Cross Israel Highway's Kesssem Interchange phase 1 (preliminary stage to the BOT Project), including project management, supervision and quality assurance (QA) of 2 segmental bridges, precast cantilever: Bridge no. 5 – 634m long, dual bridge (the longest in Israel) and Bridge no. 14 – 364 m long.
- **1972-1998:** Coordination & Supervision Ayalon Ltd - General Manager Design, coordination, supervision, project management and construction management of civil engineering projects: bridges, structures, water canals, roads, etc. Project management, coordination and supervision of bridges, structures, channels, drainage and roads of the Ayalon Highway Project crossing Tel Aviv, including project management, supervision and quality assurance (QA) of 2 segmental bridges, precast cantilever (the first segmental bridge in Israel)
- **1970-2:** Structural design manager of the Ayalon Highway Project.

- **1958-1970:** "Tichnun" Engineers & Architects, Tel Aviv – Partner. Design, supervision and coordination of large public buildings, pre-cast and pre-stressed concrete structures, steel structures and bridges.

## **MAIN PROJECTS:**

### ***in addition to the above PPP Projects***

#### **◆ Structures and Facilities:**

- Israel Shipyards - precast & post-tensioned concrete structures (1961-2).
- Potash storage facilities, Port of Eilat (1963).
- Potash storage and handling facilities, Port of Ashdod (1964-5).
- Steel multi-span sheds - Ports of Eilat & Ashdod (1974).
- Concrete silos for potash products - Port of Ashdod (1972).
- Prefabricated housing and industrial buildings in various locations in Israel.
- Hotels (King Solomon, Neptune) - Eilat (1967-8).
- Israel Aircraft Industries - Extension of aircraft hangers (1973-4).

#### **◆ Bridge Design and Supervision:**

- Bar-Yehuda Bridge over Yarkon River in Tel Aviv (1966-8).
- Hashalom & Yitzhak Sadeh Bridges (1969).
- Namir Road Bridge over Yarkon River in Tel Aviv (1973).

#### **◆ Ayalon Highway Project:**

- Phase A design of precast and post-tensioned concrete bridges (1968-70).
- Design Coordination of the Project (1970-2).

#### **◆ Project Management:**

- Potash storage and handling facilities - Port of Ashdod, phase B (1977-8).
- Potash storage facilities - Port of Eilat, phase B (1978-9).
- Kibutz Galuyot Bridge (1972-4).
- Hashalom Bridge (1973-5).
- Petach Tiqva and Aervei-Nachal Bridges (1973-9).
- Nachlat-Yitzhak Bridge (1980).
- La-Guardia Bridge (1984).
- Halacha Bridge (1984).
- K.K.L Bridge (1989).
- Railway Bridge over Ayalon N.B lanes (1990).
- Holon Interchange Bridge (1992-3).
- Railway Bridges over Yarkon and Rokach Blvd (1993-4).
- Bridges over Yarkon-Ayalon Rivers and Rokach Blvd - phase 1 (1986-7) and phase 2 (1994-5).
- Gelilot Interchange Bridges (1994-5).
- Ayalon South – 2 segmental Bridges (1994-5).
- 7 Stars Blvd Bridge (1996-7).
- Ayalon Highway civil engineering works, including: canal concrete floor & walls, retaining walls, roads & substructures, railways substructures along the Ayalon Project.

- Cross-Israel Highway (Highway no. 6) - Kessem Interchange, phase 1: Project management, coordination, supervision and quality assurance. The project included:
  - Bridge no. 5 - segmental - 634m long.
  - Bridge no. 14 - segmental – 364m long.
  - Bridge no. 44 - cast-in-situ, post-tensioned concrete double-box, 180m long, 25m wide.
  - Bridges no. 20-21-24-25 over railways.
  - Railway Bridge no. 10 - over a creek.
  - 1.2 million m3 earthworks.
  - 60,000 m2 of asphalt pavements.
  - Other facilities such as: drainage, electricity, land irrigation and gardening, traffic facilities, signage etc.
- Project Management, design and supervision on construction and building works in Israeli Embassies on behalf of the Ministry of Foreign Affairs: Berlin, Athens, Nicosia, Singapore, Haag, Rome, Amman, Tashkent, Cairo, Vienna, Bucharest, Paris, Delhi.
- Quality Control and Quality Assurance Management - D.E.C.C.J.V - Cross Israel Highway Project (Highway no. 6).