



中交第三航务工程勘察设计院有限公司

CCCC Third Harbor Consultants Co., Ltd.

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To whom it may concern,

Work with Gronner D.E.L Engineers

In the time between the years 2017-2021 and in these days also, Gronner D.E.L Engineers has provided us with the following services for Haifa Bayport Project:

- ❖ **Physical and drainage - design/planning** – designing in cooperation between Chinese planner and the company for the planning of bay-port located near the city of Haifa which was planned on a dried marine soil: the services included elevation planning, and drainage plan for the entire port in the area of about 800,000 square meters and authorities approvals
- ❖ **Traffic design/planning** in the stages of concept generation, preliminary design, detailed design and supreme supervision for the planning of bay-port traffic system which include entrance to and exits from the bay port and connection to the area traffic system, the port inside traffic system for private car and truck, operational vehicles traffic system, near cranes traffic system and connection to storage beds including authority approvals.
- ❖ **Design review for Chinese design and localizing to Israel standards and project management for the process** – Gronner D.E.L engineers has provided us a design review for plans of substations, workshop, main building, general buildings, storage beds, crane rails, water system, firefighting system, electricity system, structure, architecture etc. the company has provided the services and managed all the needed advisors and was the connection and between the Chinese designer and project manager to the Israeli designers and authorities in the stage of design/planning.
- ❖ **Building permit application and needed approvals for the design from Israeli authorities and D&H area** – Gronner D.E.L engineers has provided to us the service of acquiring building permits for the entire port that is consist of: general development (elevation, underground systems, crane rails, traffic) buildings (main



building, workshop, general buildings, STS- Sea To Shore cranes, RMG – Rail Mounted Cranes an railway cranes, substations , and all needed facilities for operation of the port.

Gronner D.E.L also acquired the needed permits for building and dangerous goods storage areas including the management of the risk analysis and all approvals needed.

The company was the connection between the Chinese designers and plans to the Israel Haifa district committee of building and Haifa municipality building committee.

In the process of permit and authority approvals obtaining for the design, the company handled the technical, engineering and permit editor issues in front of: building committee, ministry of environment, ,ministry of health , home front command, firefighting, traffic committee , civil aviation authority, the authority of airports, gas and fuel company's, etc.

- ❖ The project magnitude was about 1 billion NIS.

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Overseas Engineering Design Department

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